

**FIG. 1A (PRIOR ART)**

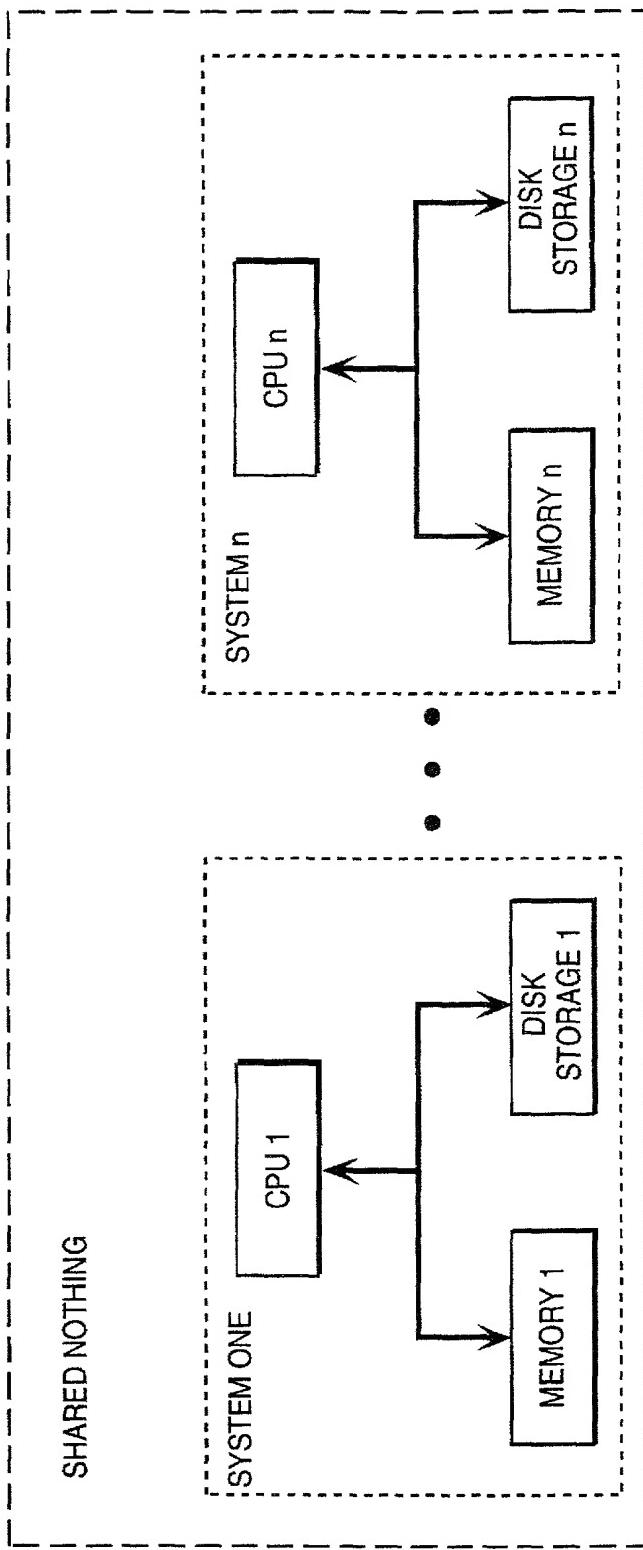


FIG. 1B (PRIOR ART)

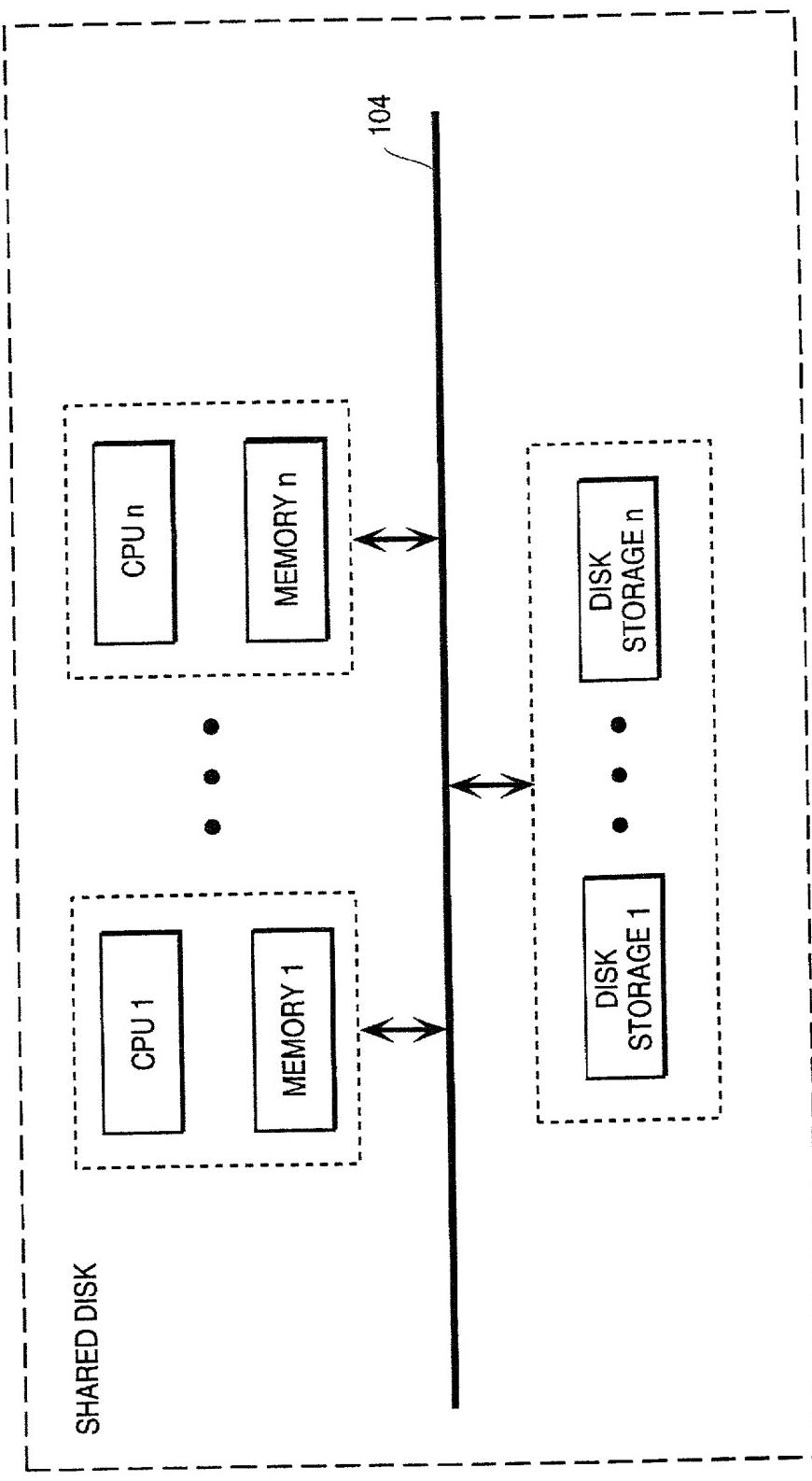
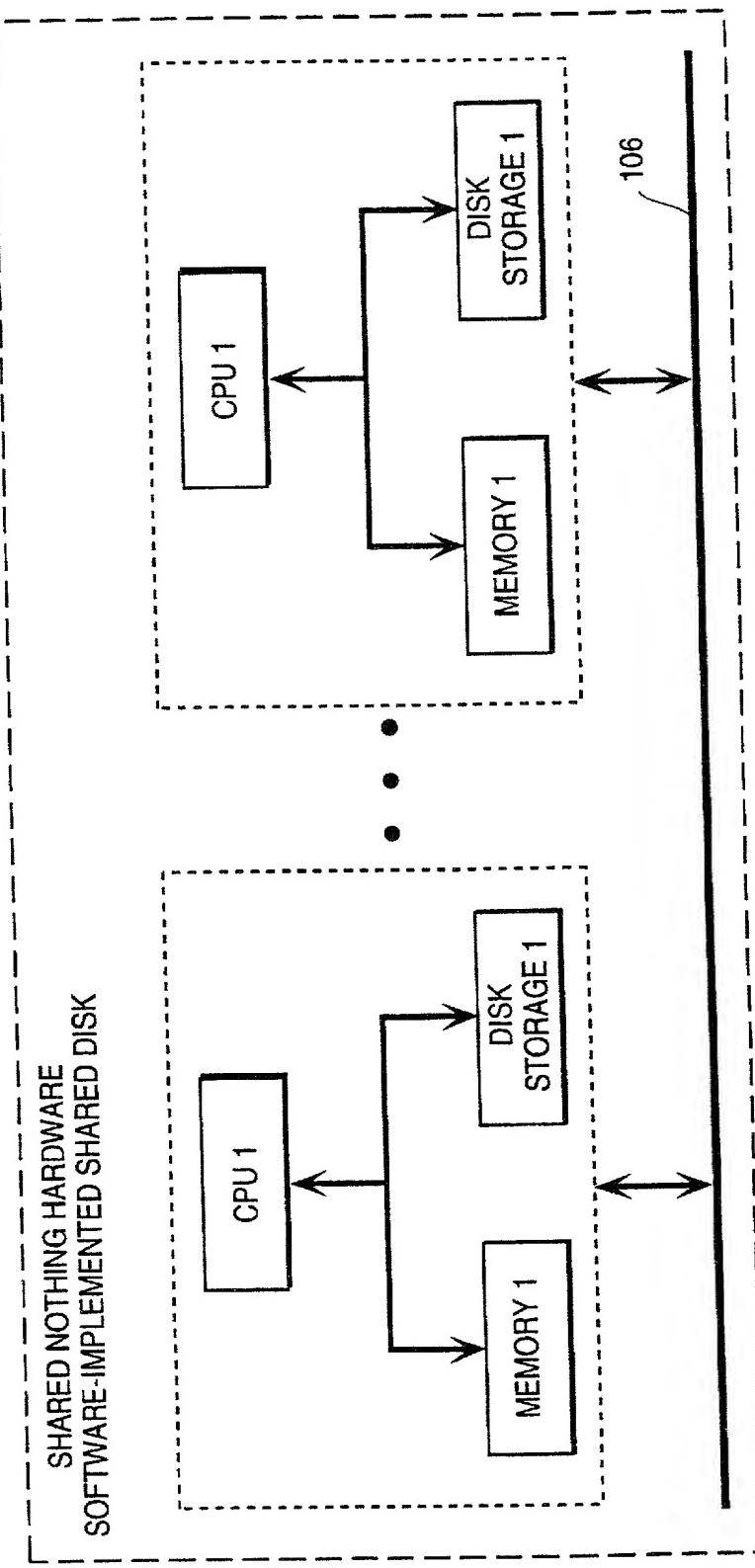


FIG. 1C (PRIOR ART)

**FIG. 1D (PRIOR ART)**

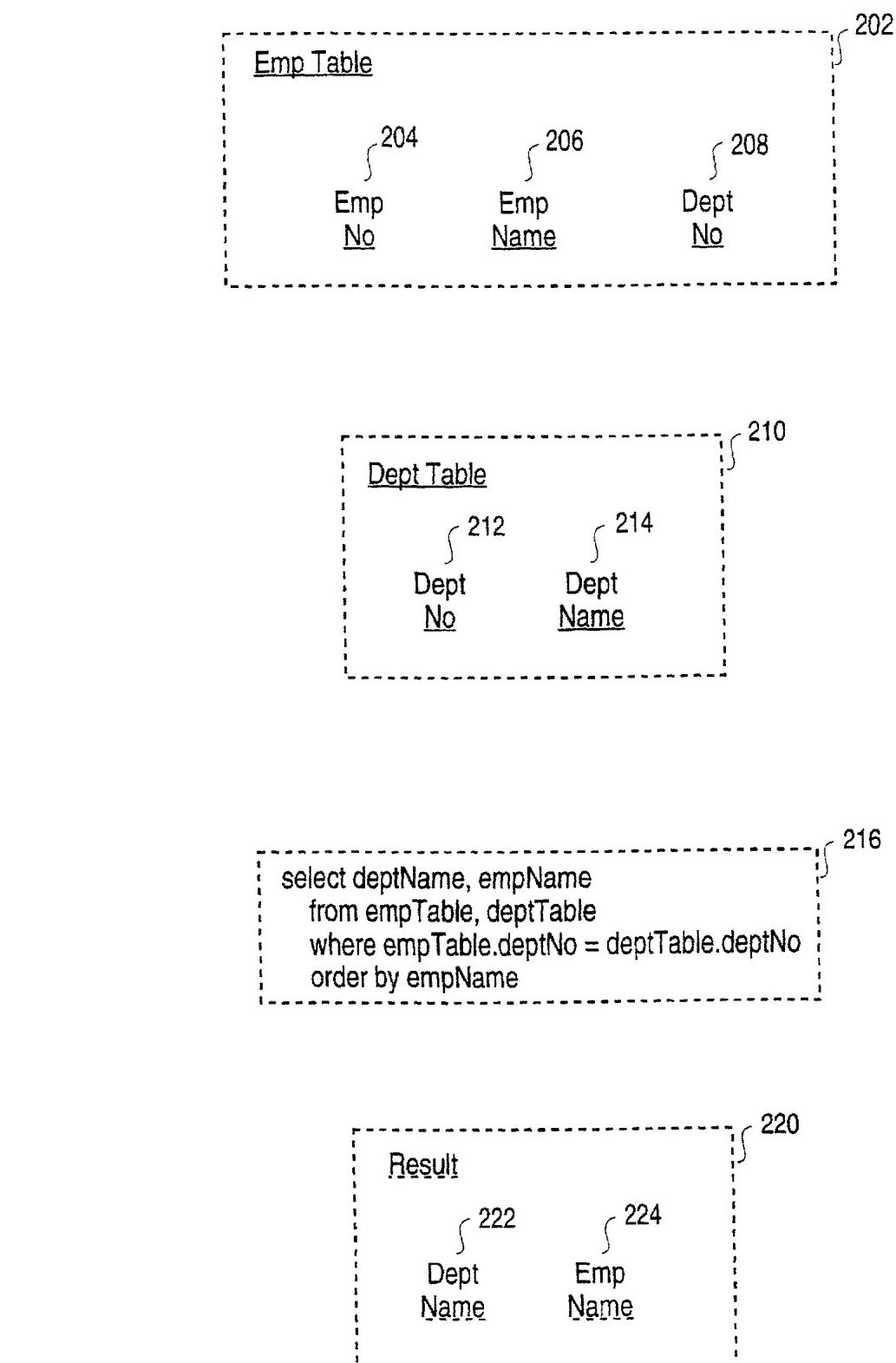


FIG. 2

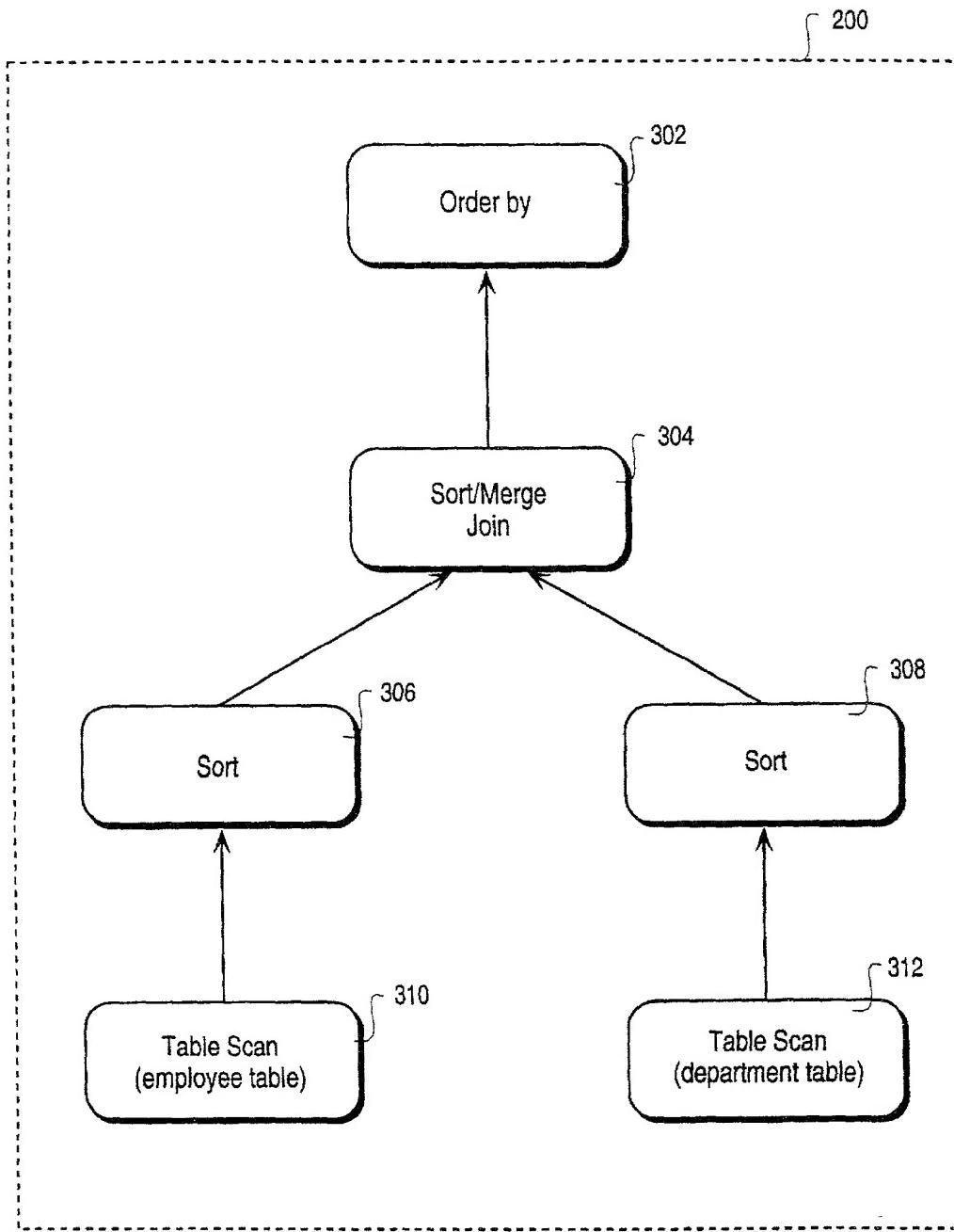


FIG. 3A

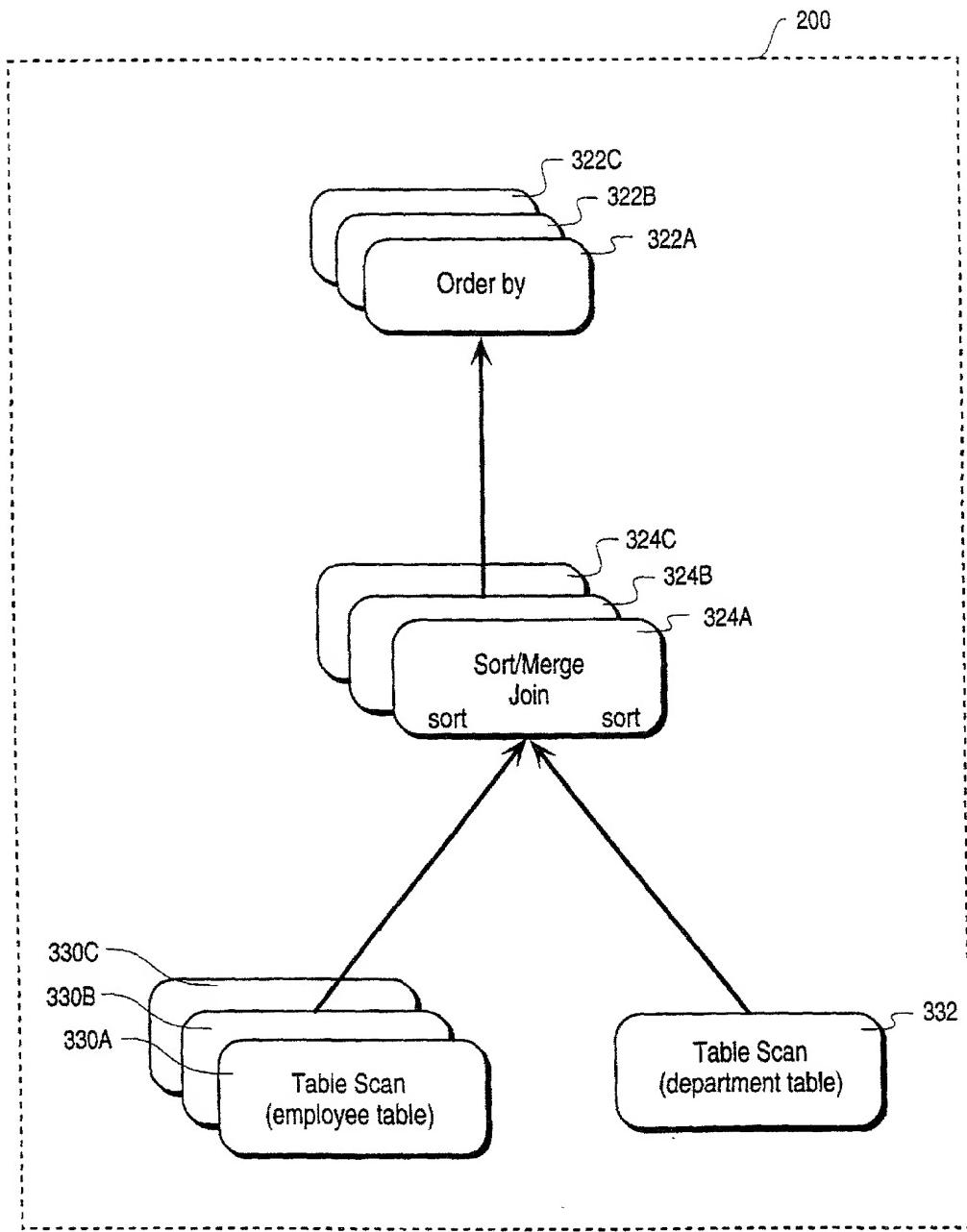


FIG. 3B

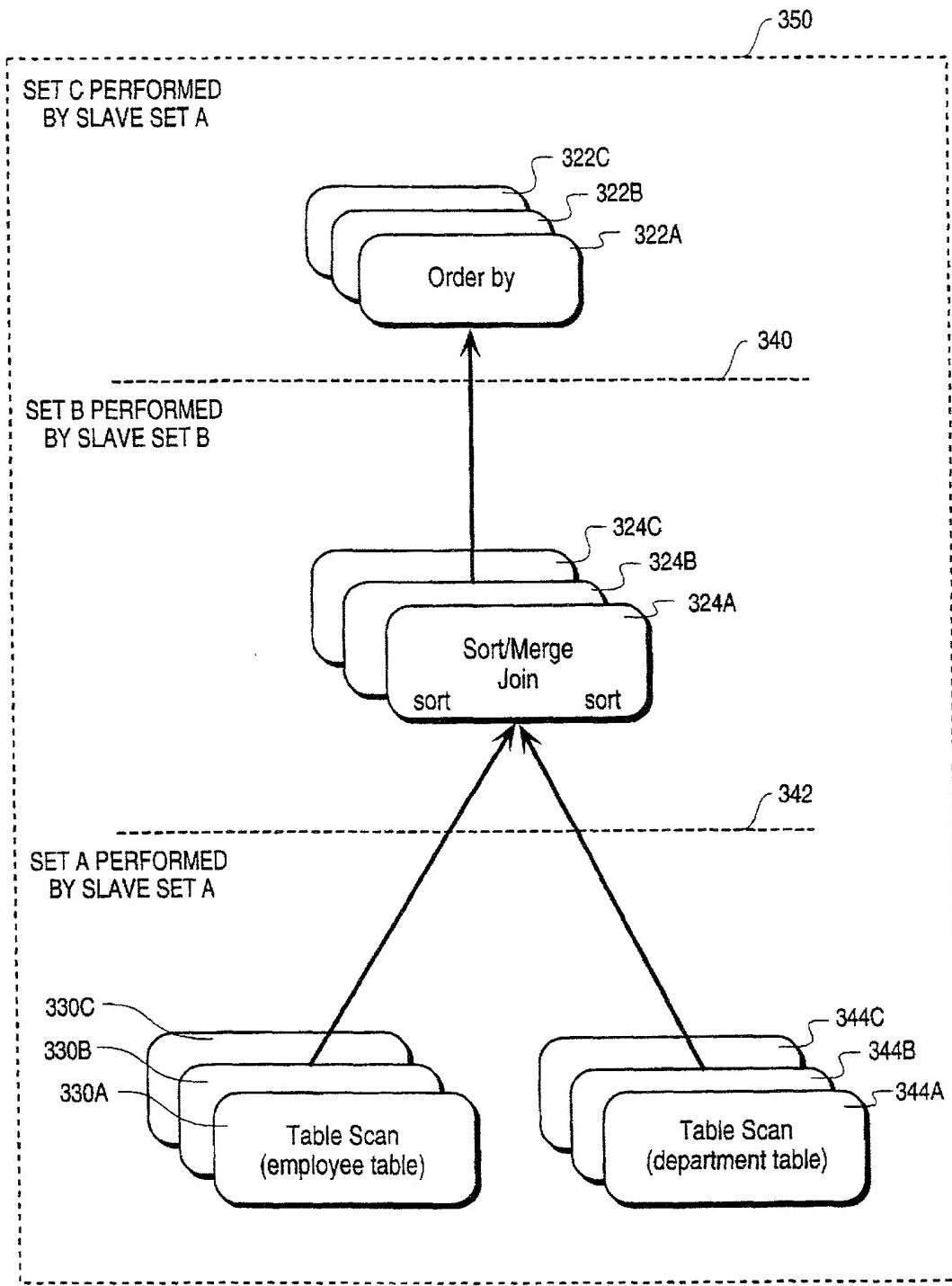


FIG. 3C

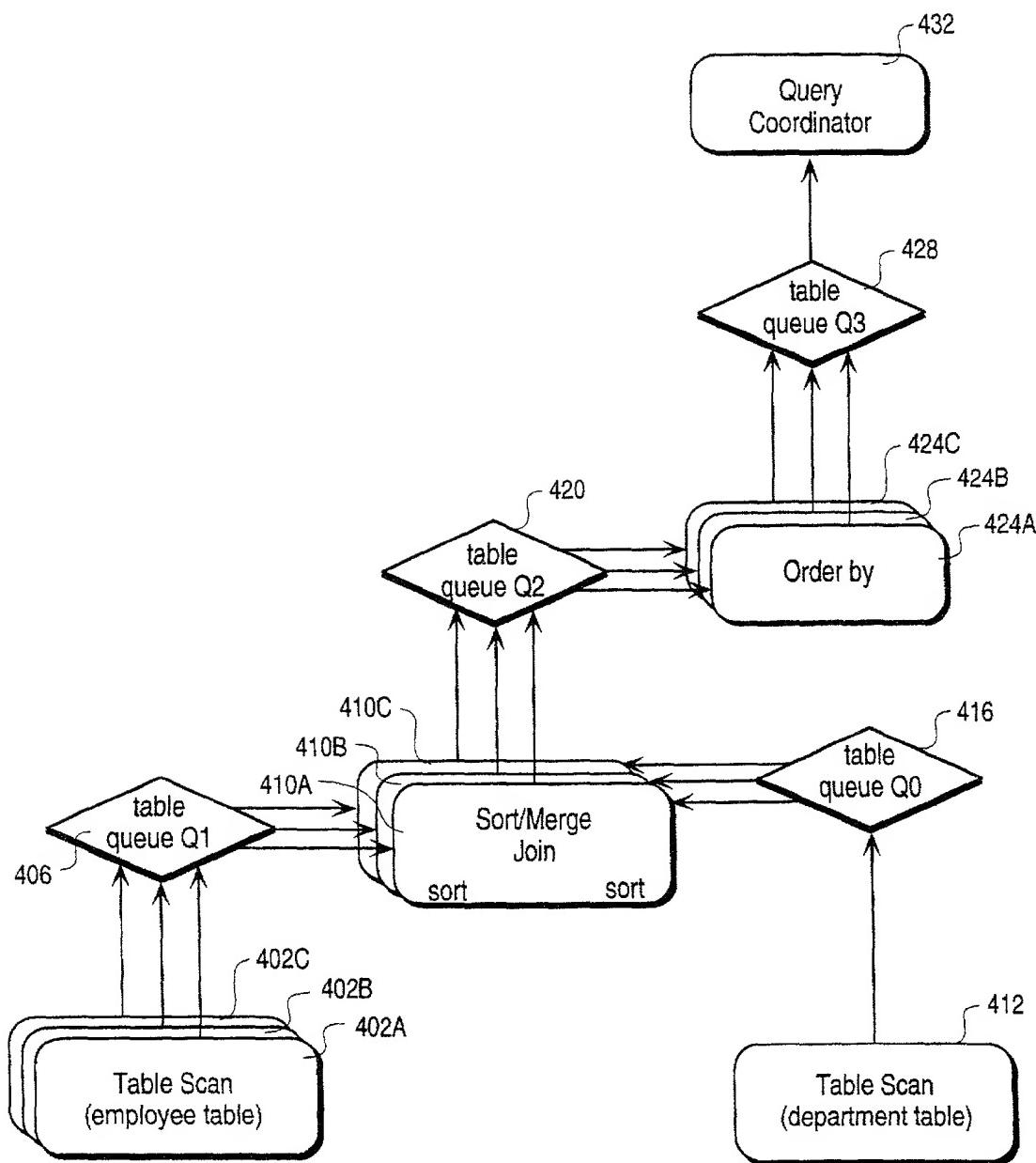
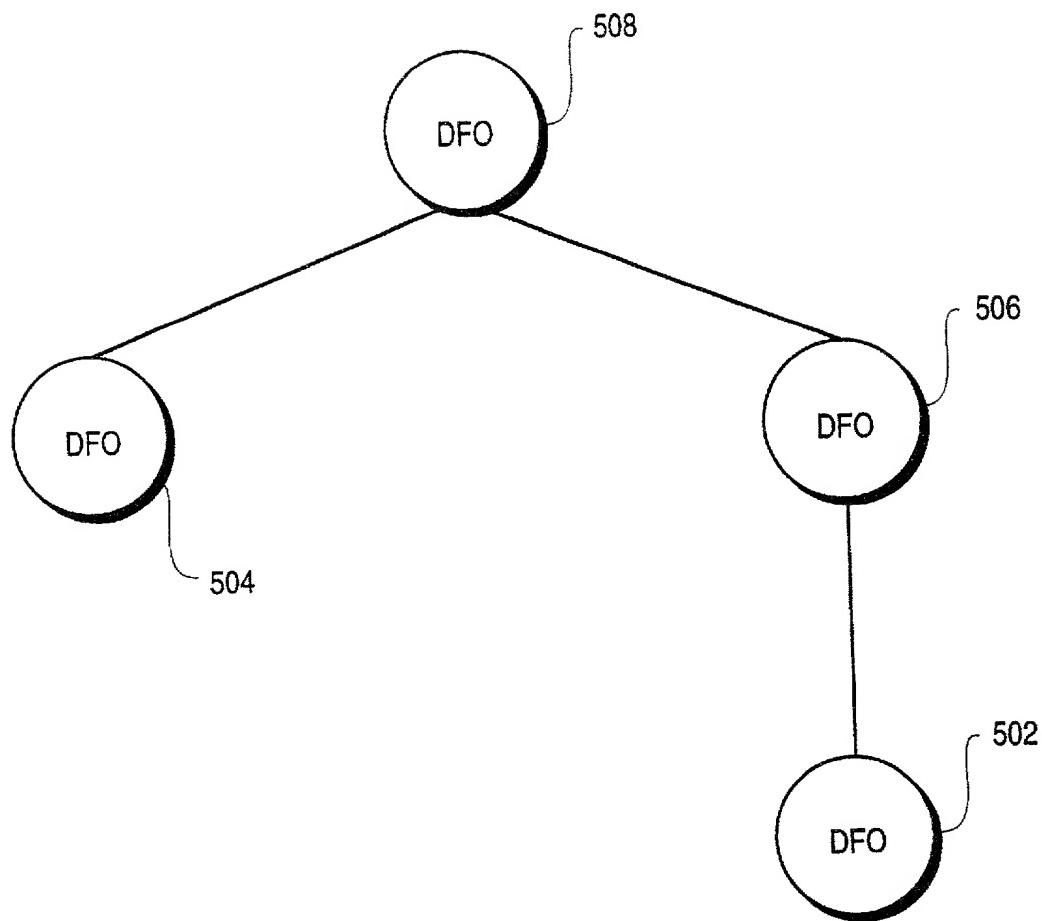


FIG. 4

**FIG. 5**

DFO Type	Type of DFO (e.g., table scan, sort/merge join)
Pointer to Parent	Pointer to parent node
Pointer to Sibling	Pointer to next-node
Row Source	Row source equivalent for this node
Operation	Identifies table node for this queue
Table Queue Identifier	
Skipped Node Information	Pointer to first child of parallelized node
Non-QC Node Information	Number of key columns in input table queue
Pointer to First Child	Parallelized node's partitioning type (e.g., hash, key range, rowid range, round robin)
Key Column Number	Number of clumped columns with parent
Partitioning Type	
Clumped Columns	
Predicates	
Control Blocks	Contains table scan information (e.g., table name and degree of parallelism)
Table Scan	Contains information for an indexed nested loop join (e.g., right and left input table)
Indexed Nested Loop Join	
(names)	Contains information for a sort/merge join (e.g., merge or outer join control flags)
Sort/Merge join	Contains information for index creation (e.g., column list, index type, and storage parameters)
Index Creation	

FIG. 6A

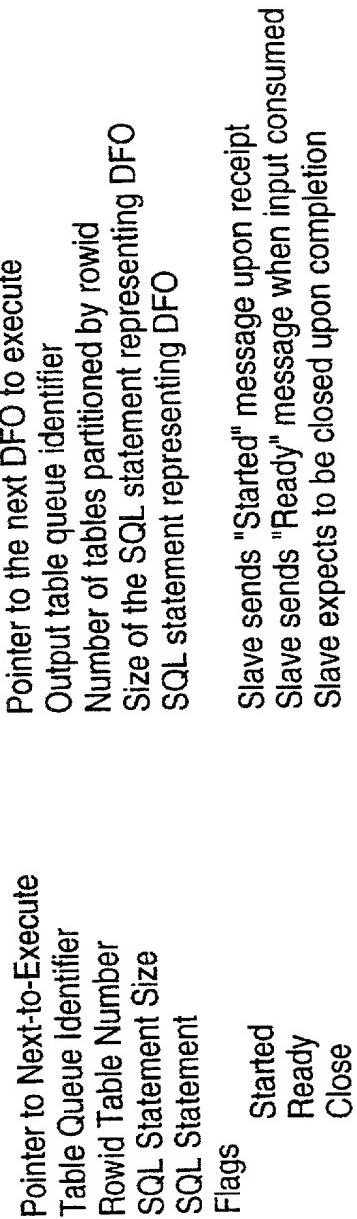


FIG. 6B

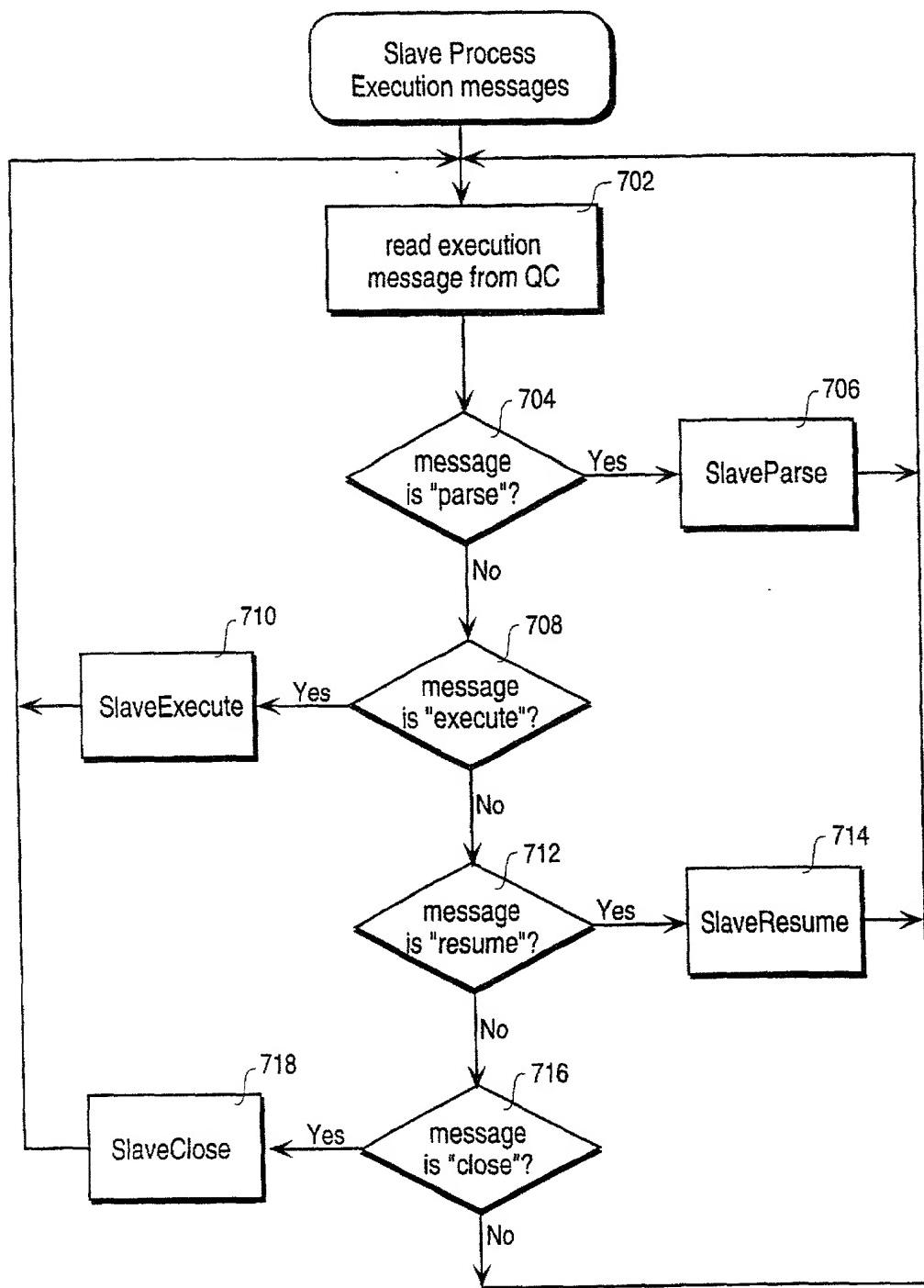
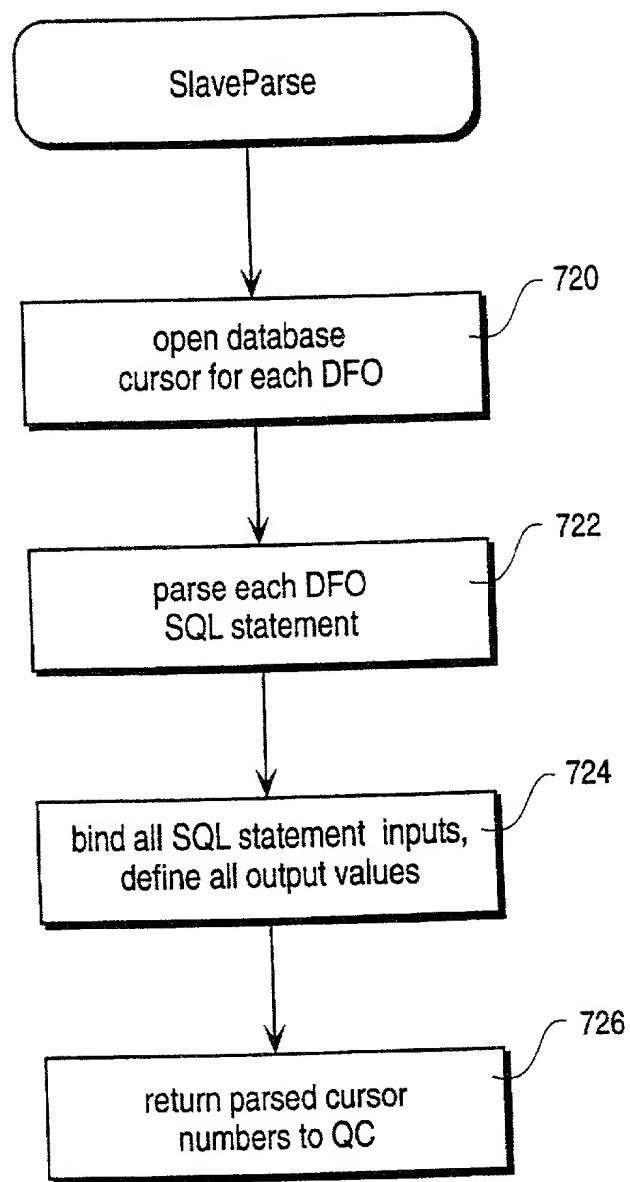
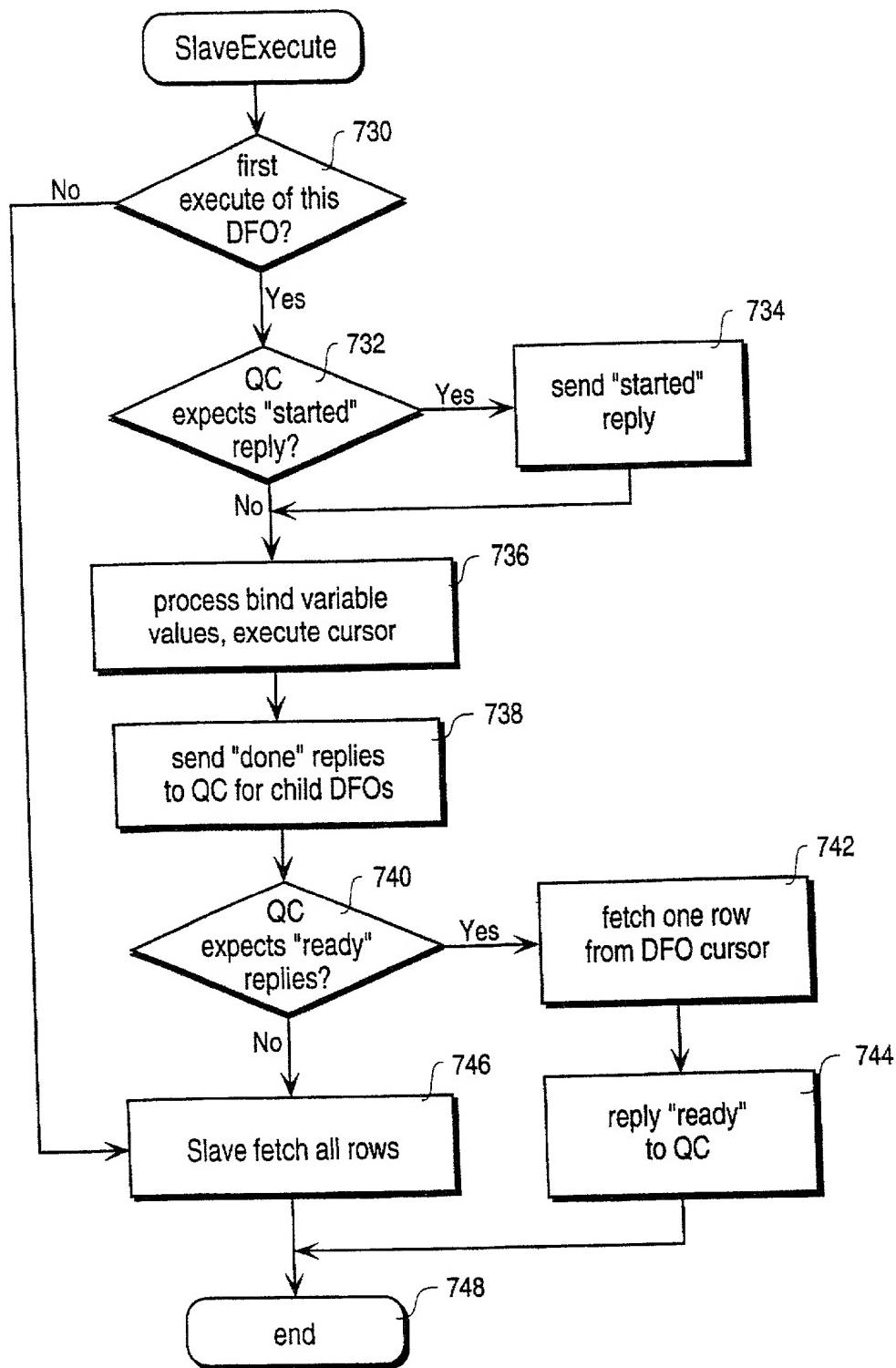
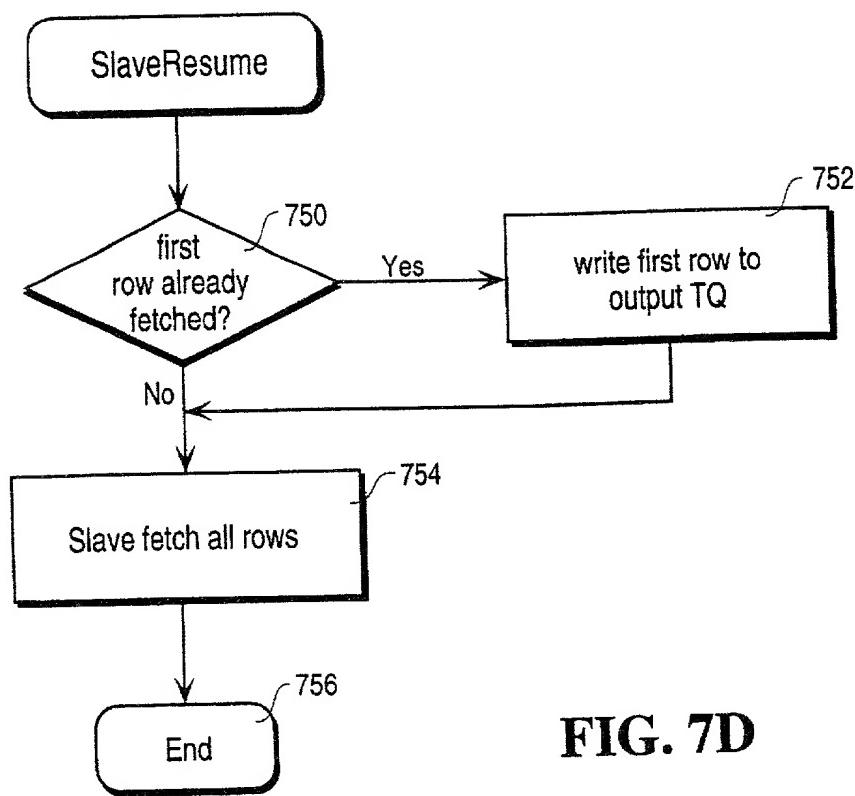
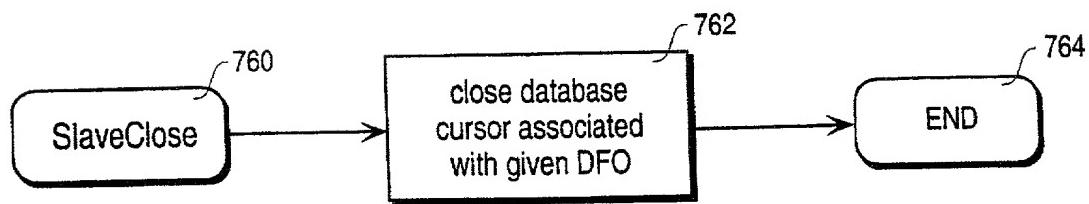


FIG. 7A

**FIG. 7B**

**FIG. 7C**

**FIG. 7D****FIG. 7E**

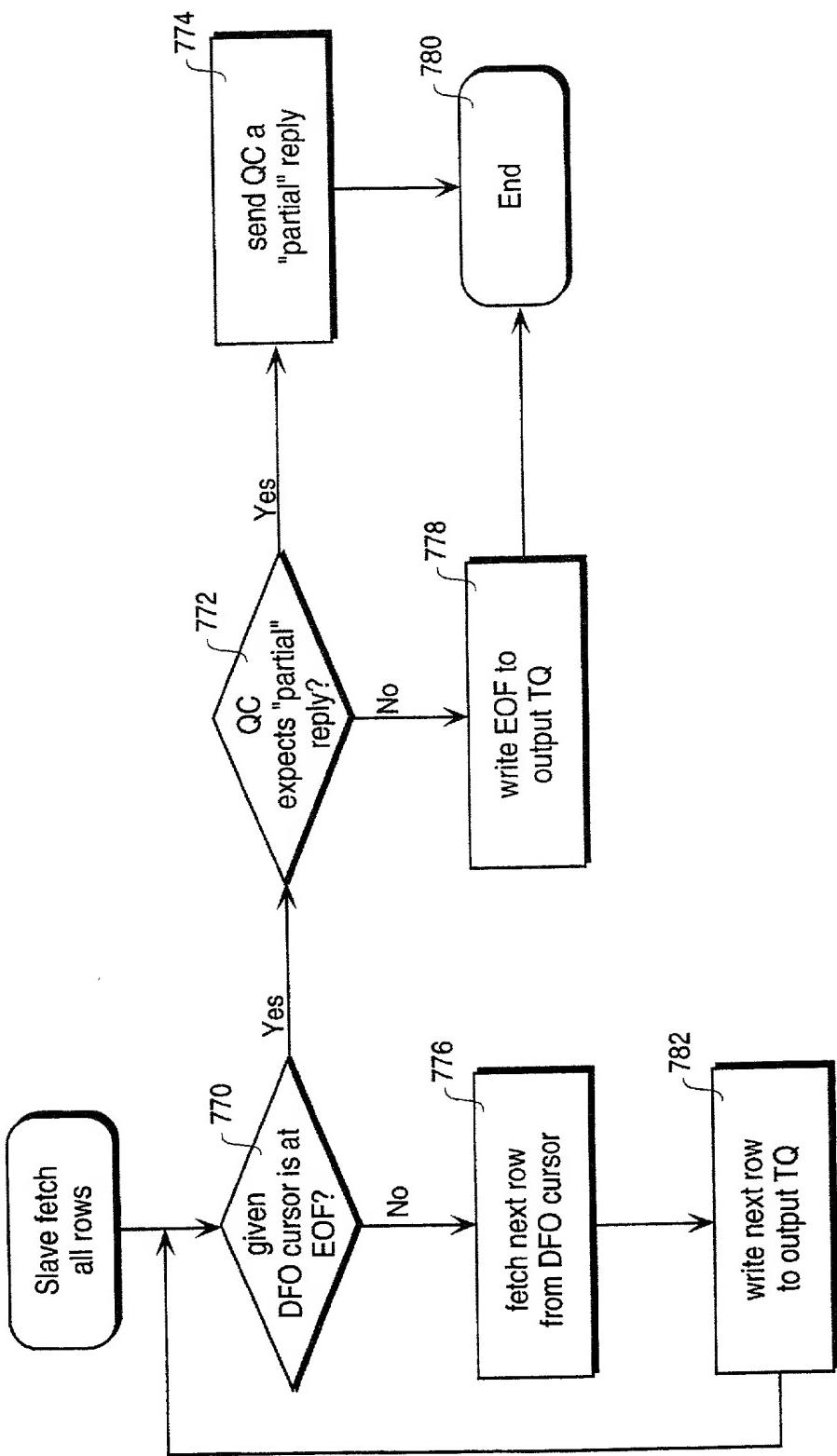
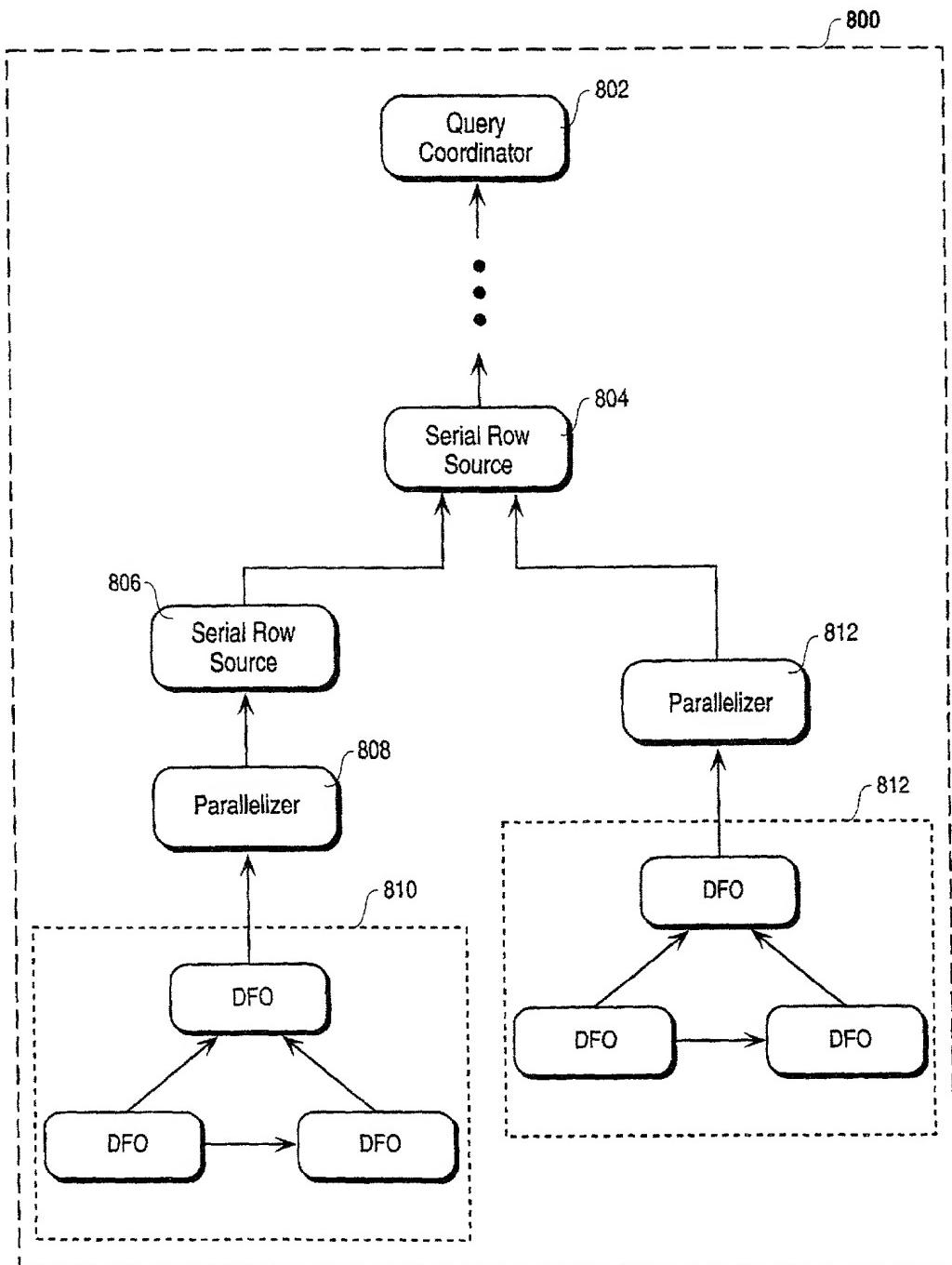


FIG. 7F

**FIG. 8**

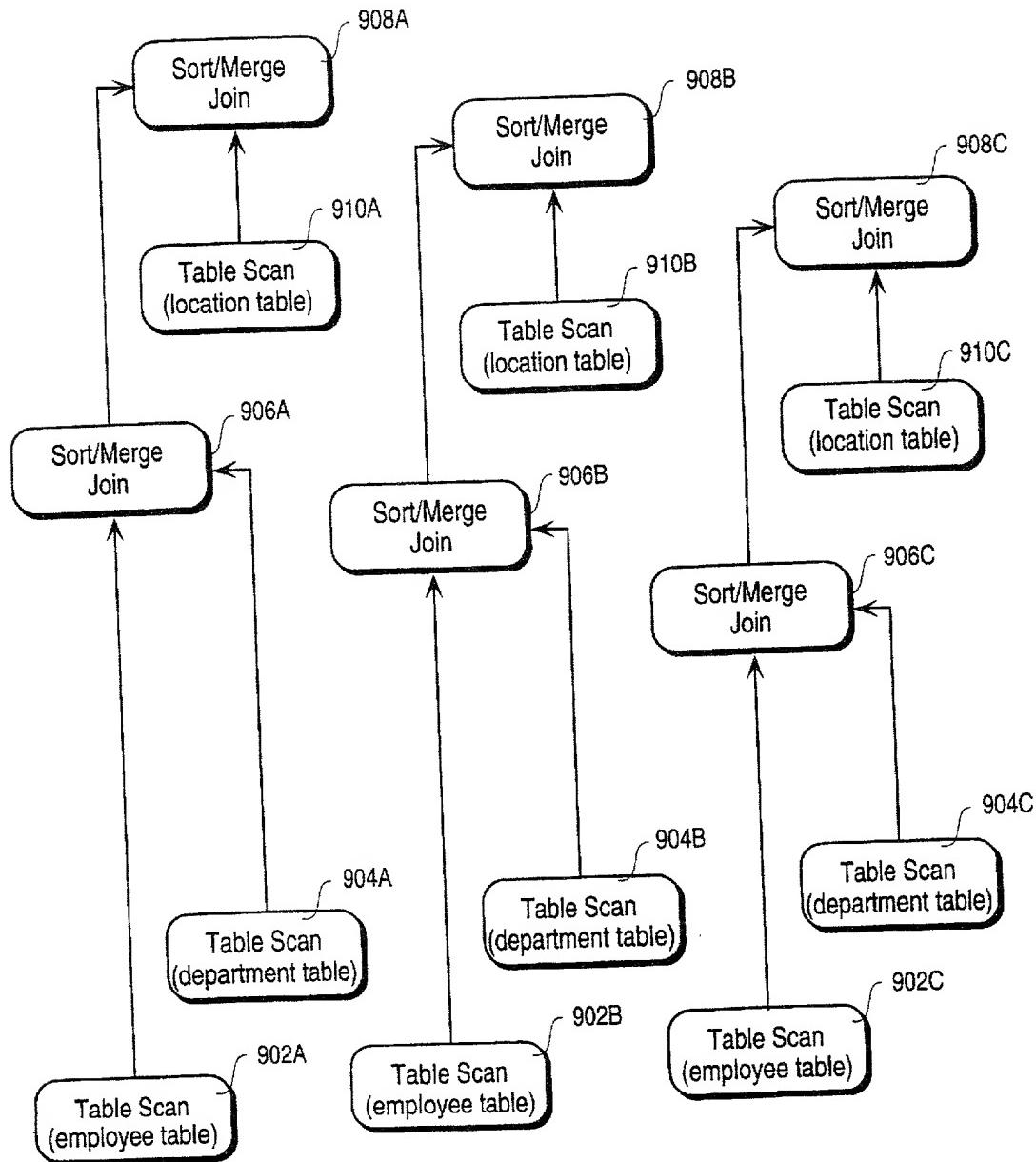


FIG. 9

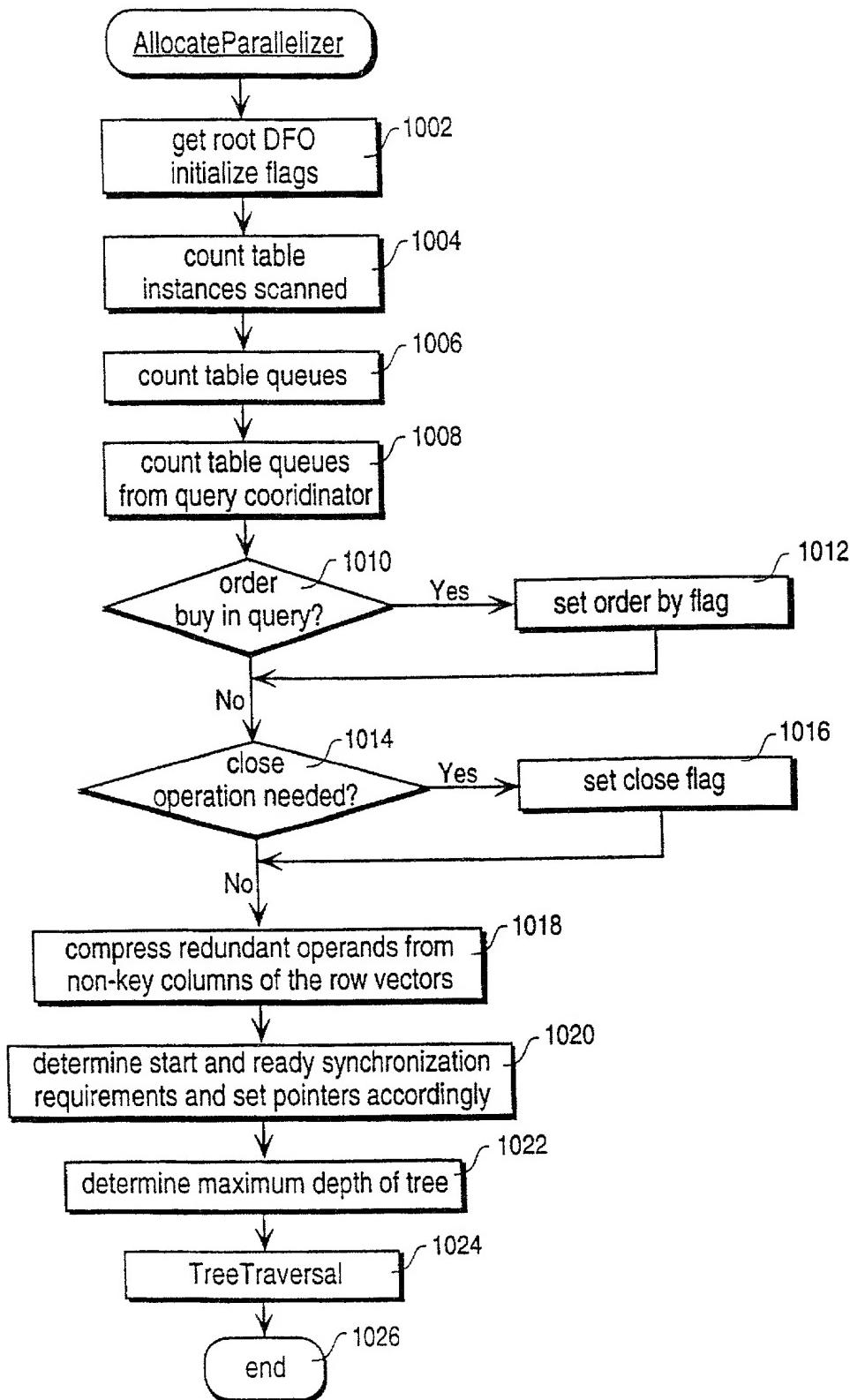


FIG. 10A

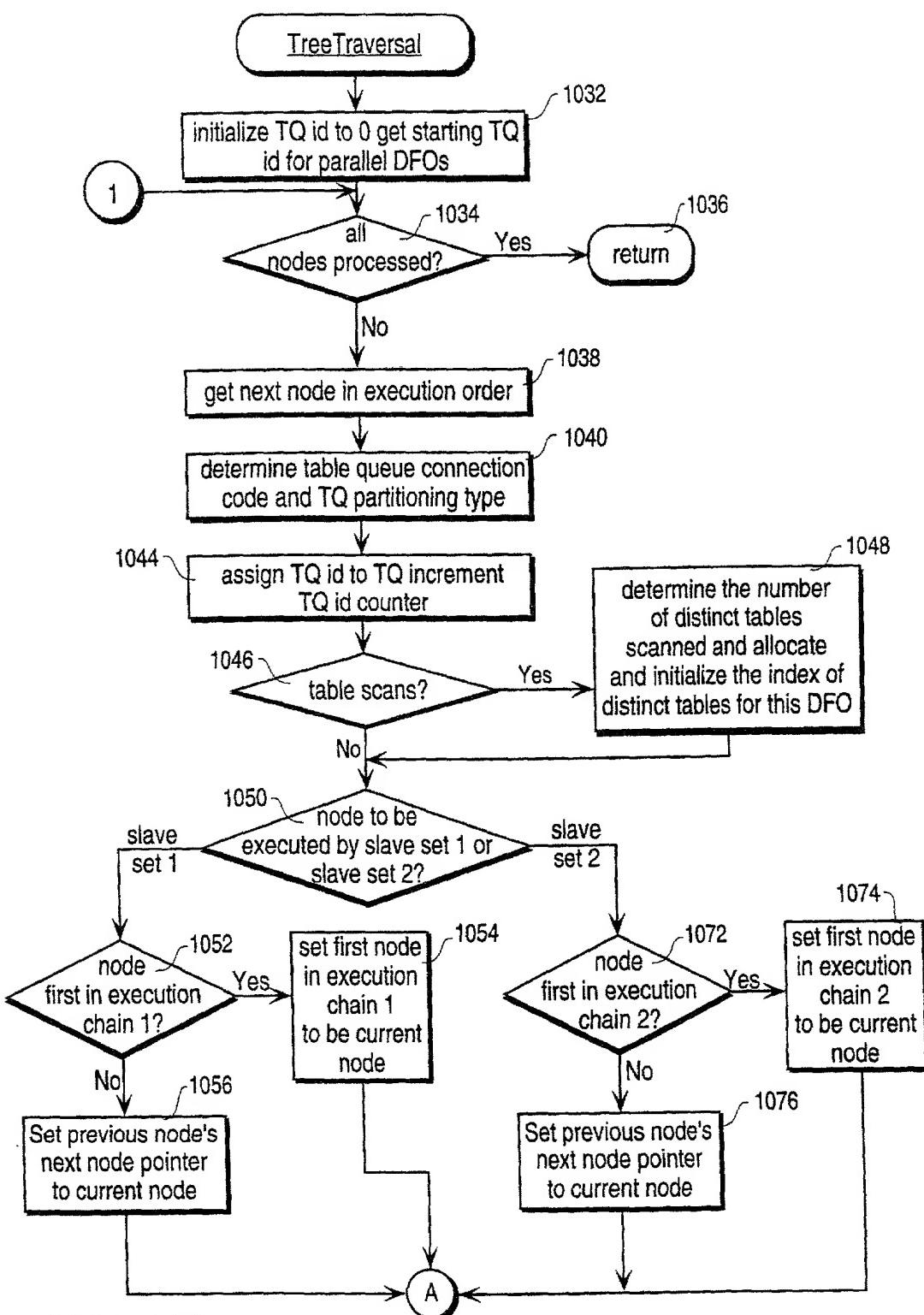
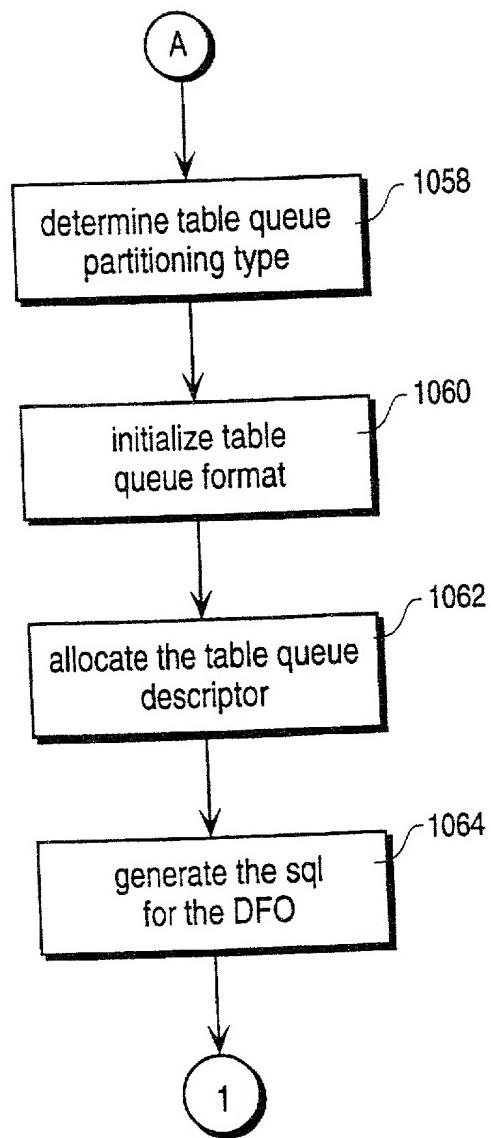


FIG. 10B

**FIG. 10C**

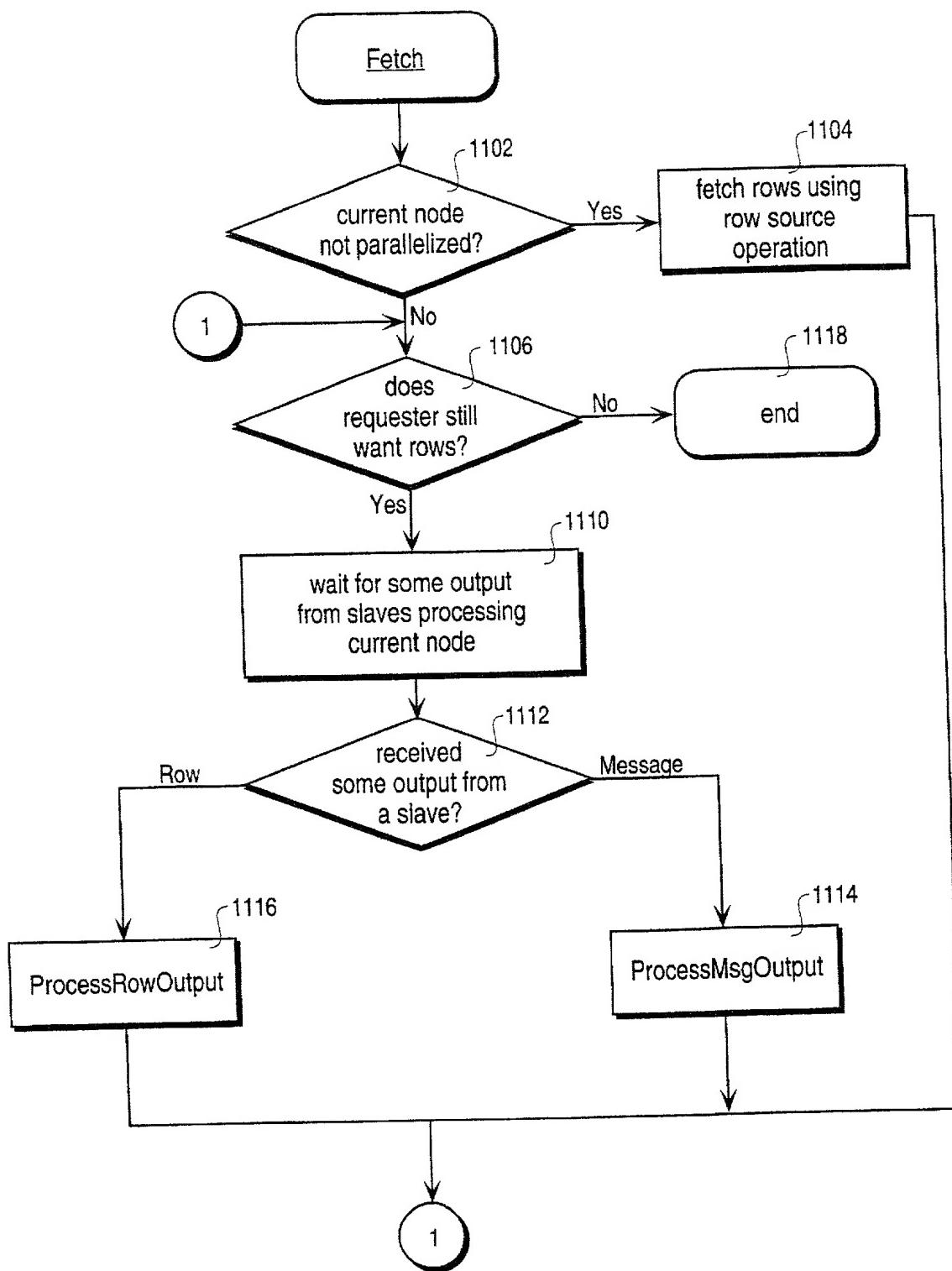


FIG. 11A

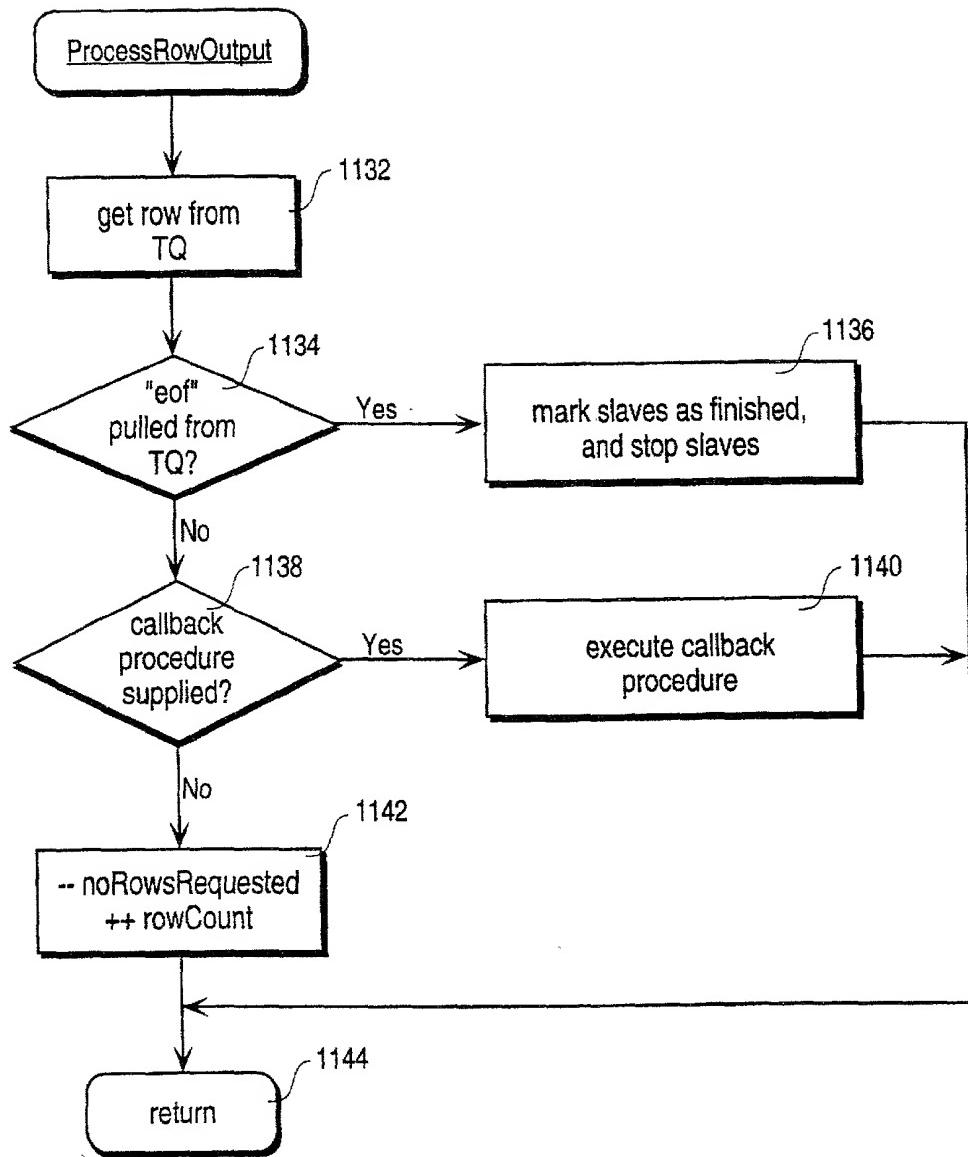


FIG. 11B

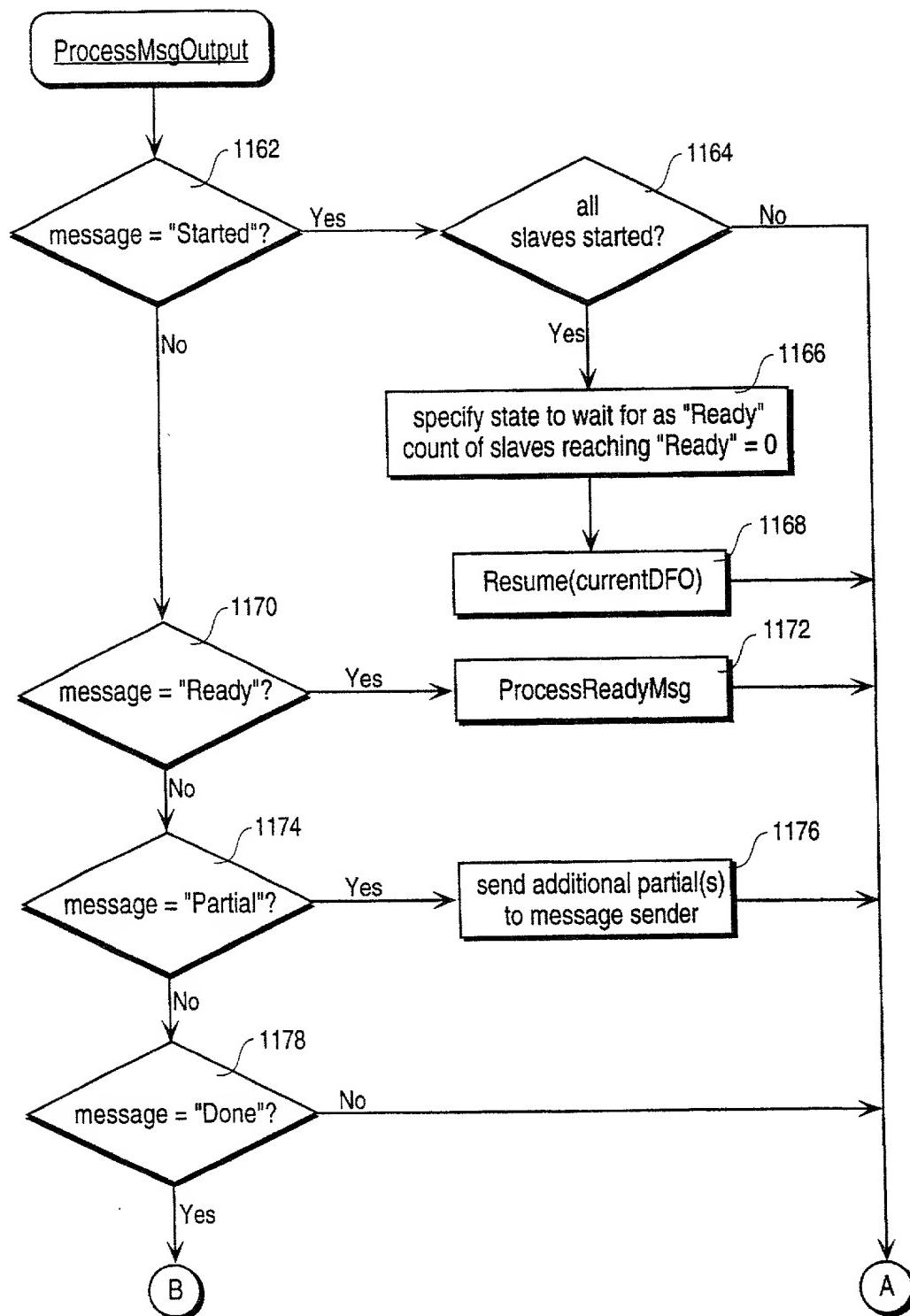


FIG. 11C

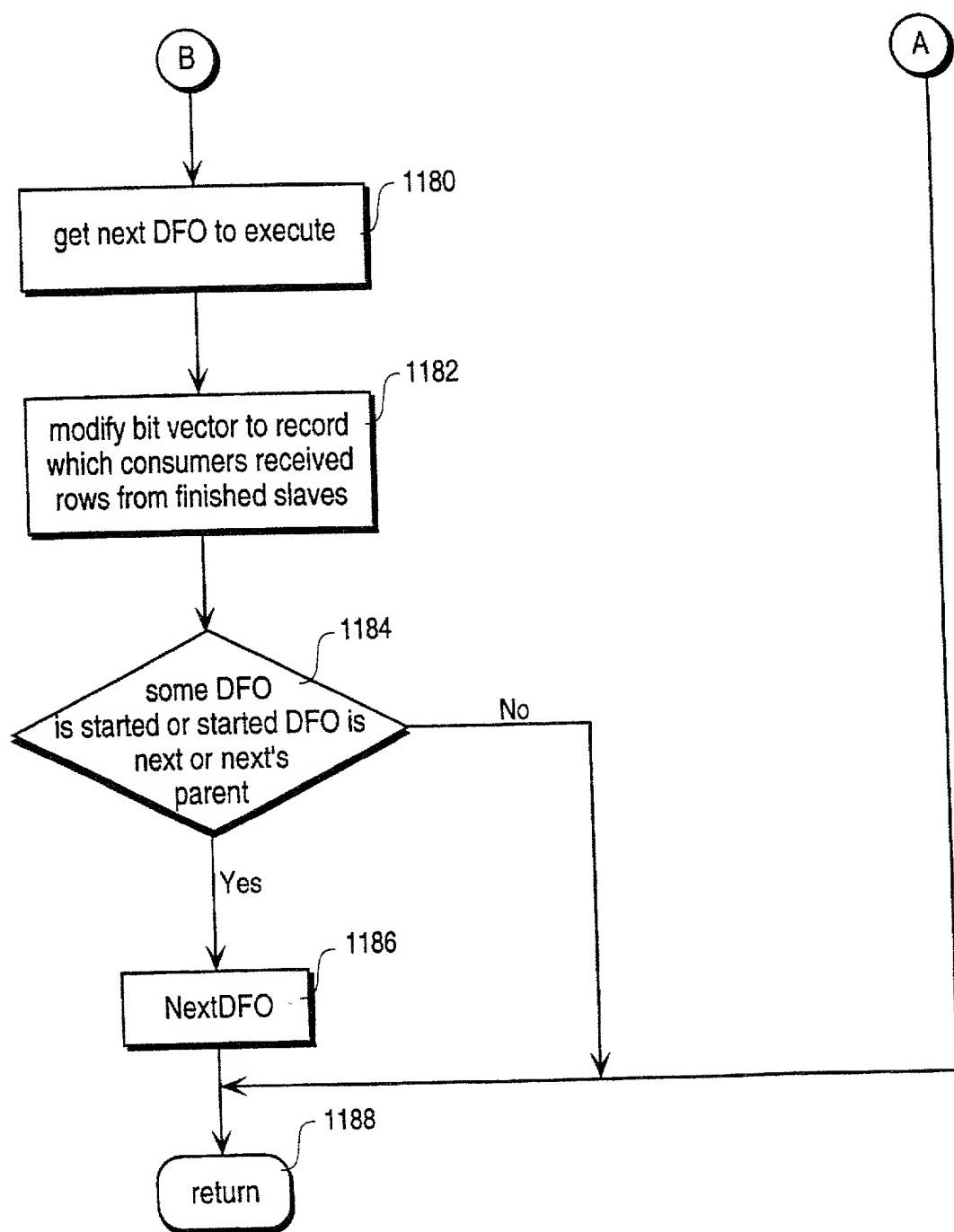


FIG. 11D

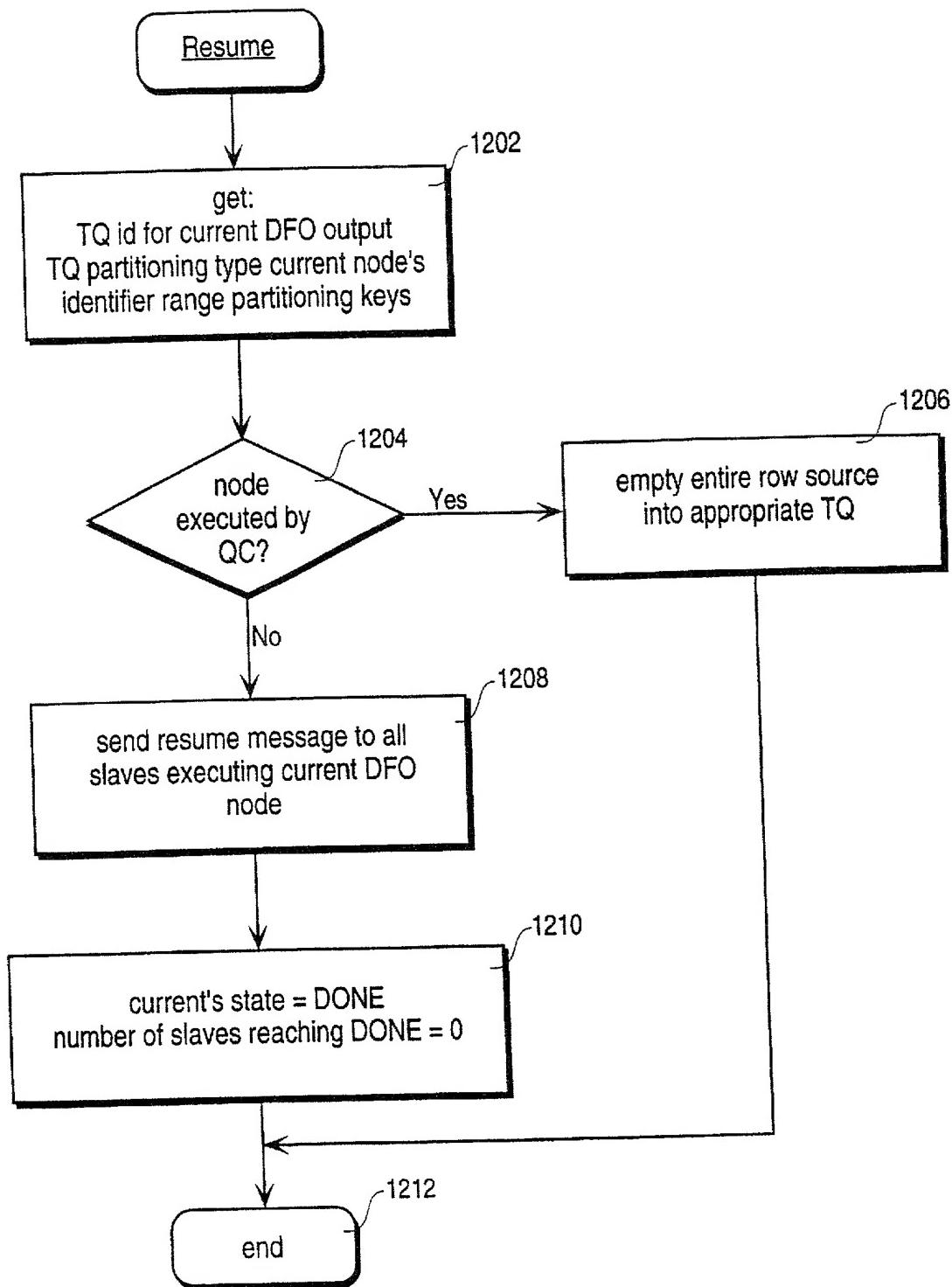


FIG. 12

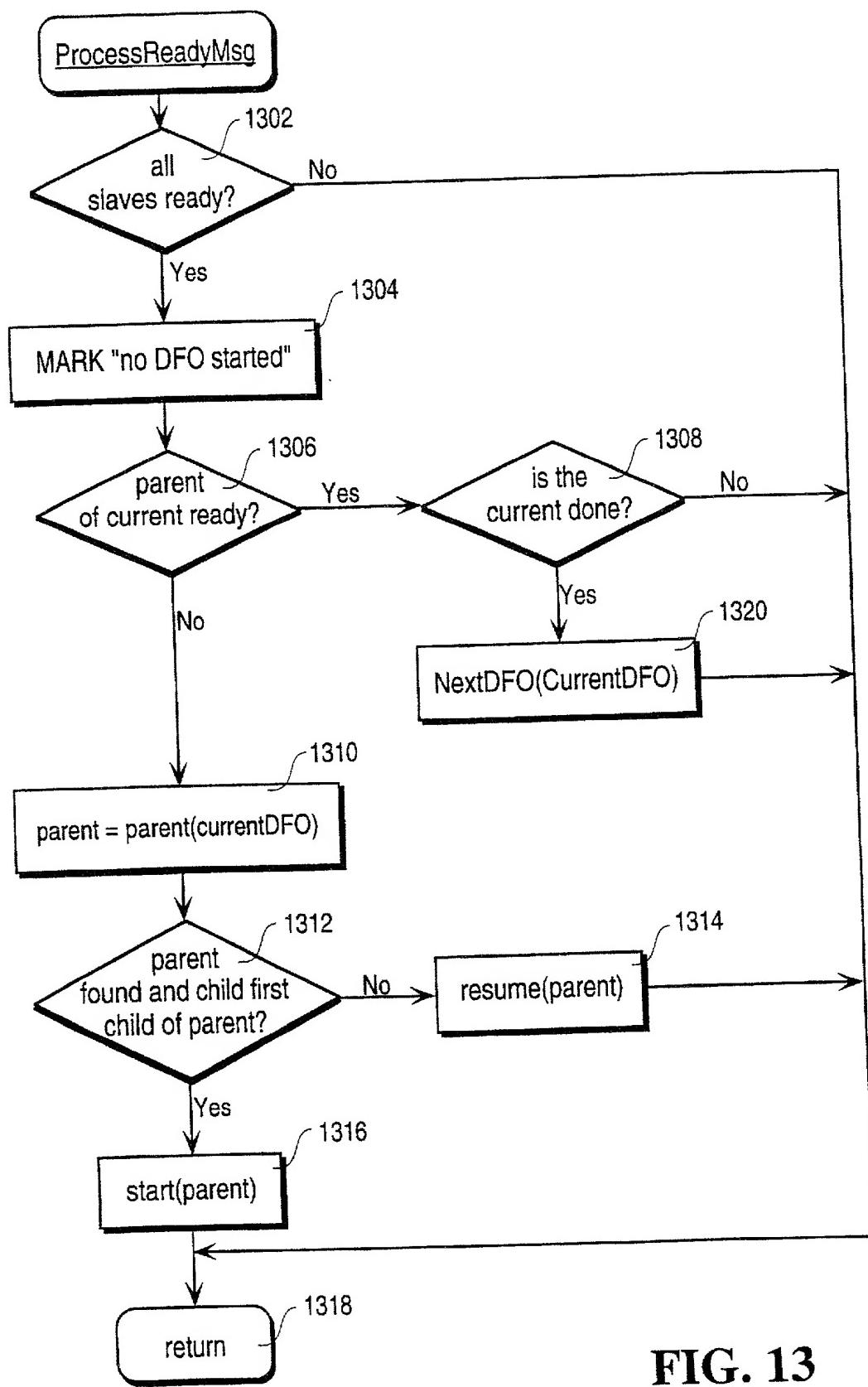


FIG. 13

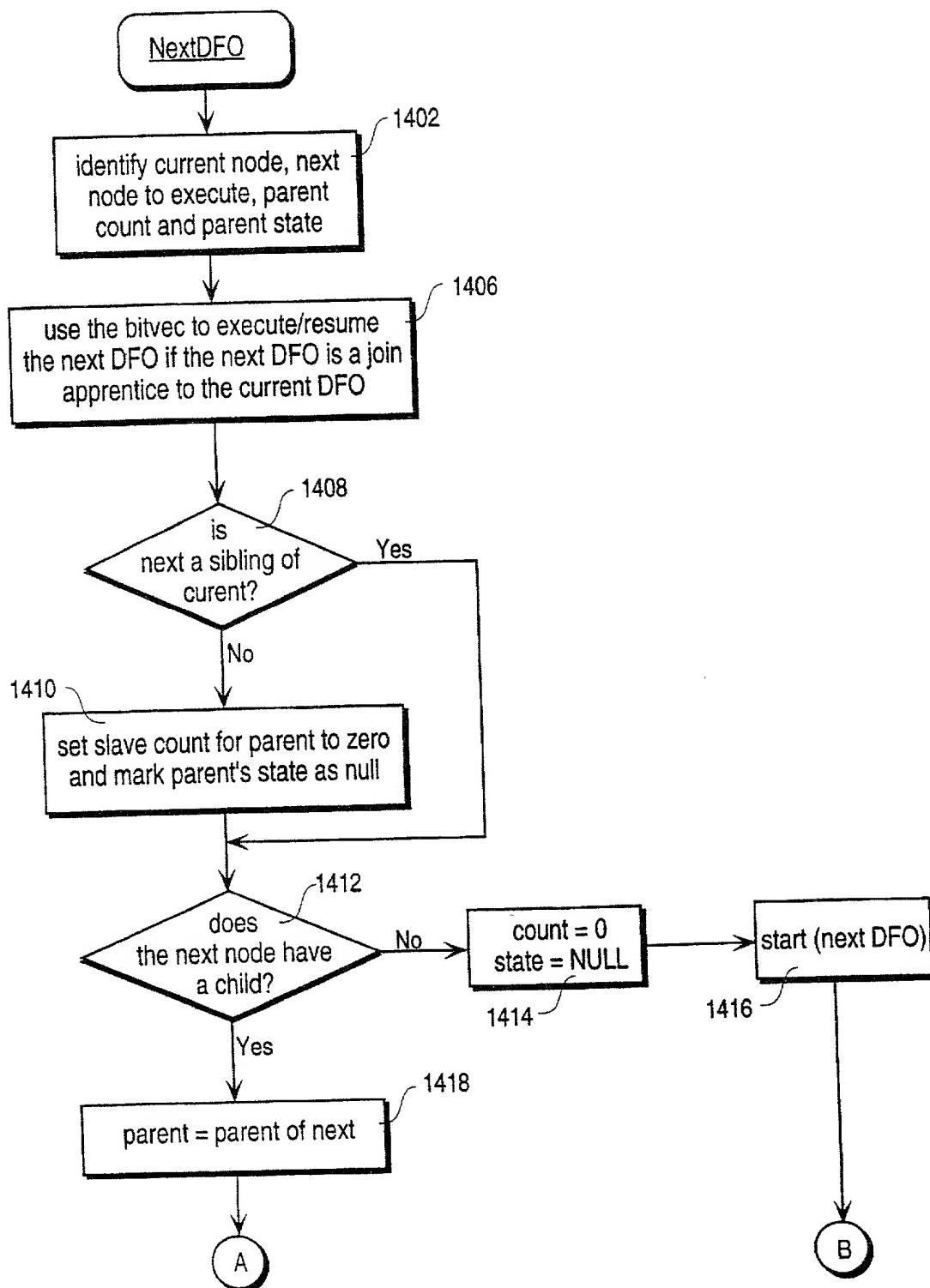


FIG. 14A

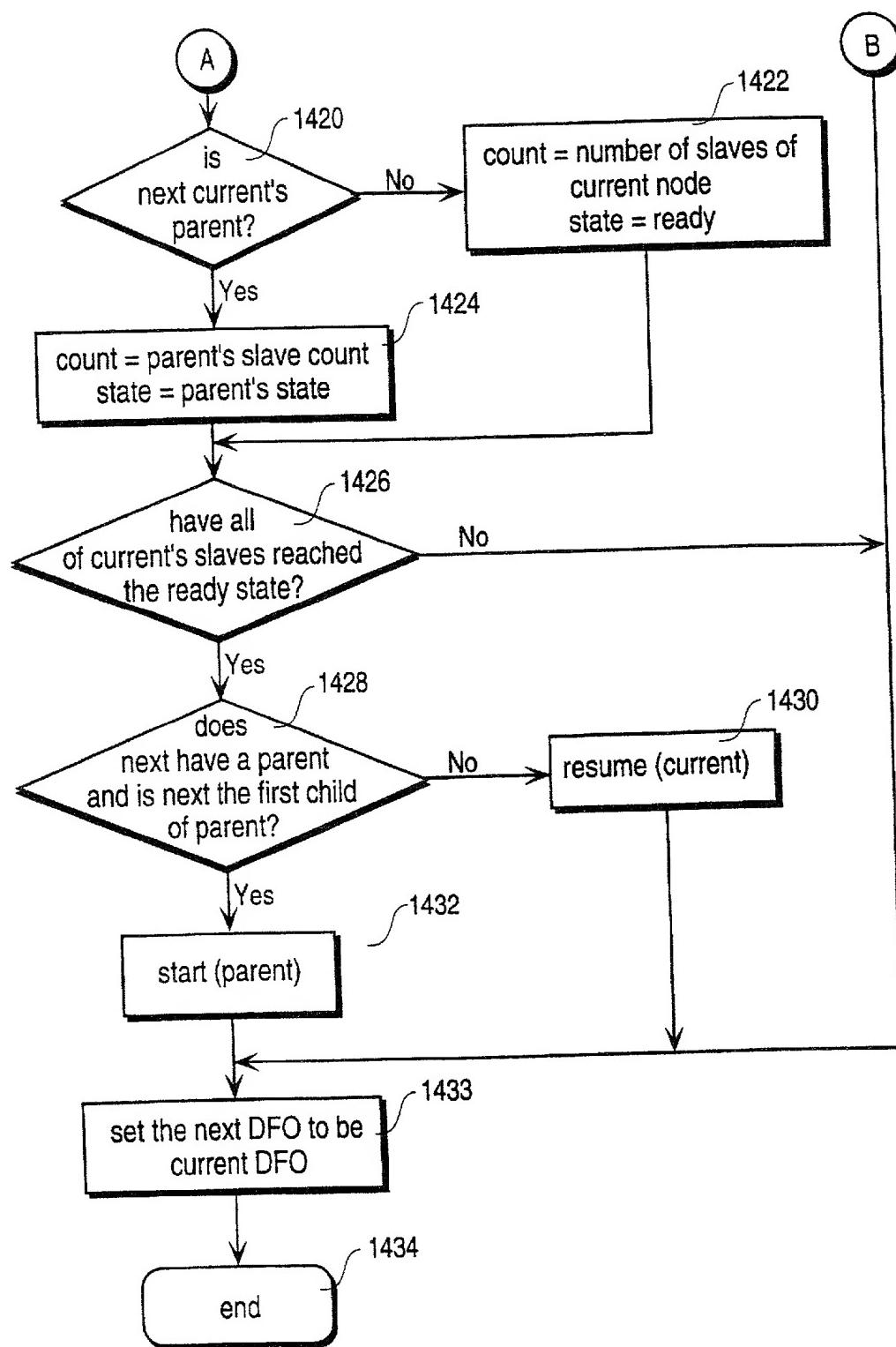


FIG. 14B

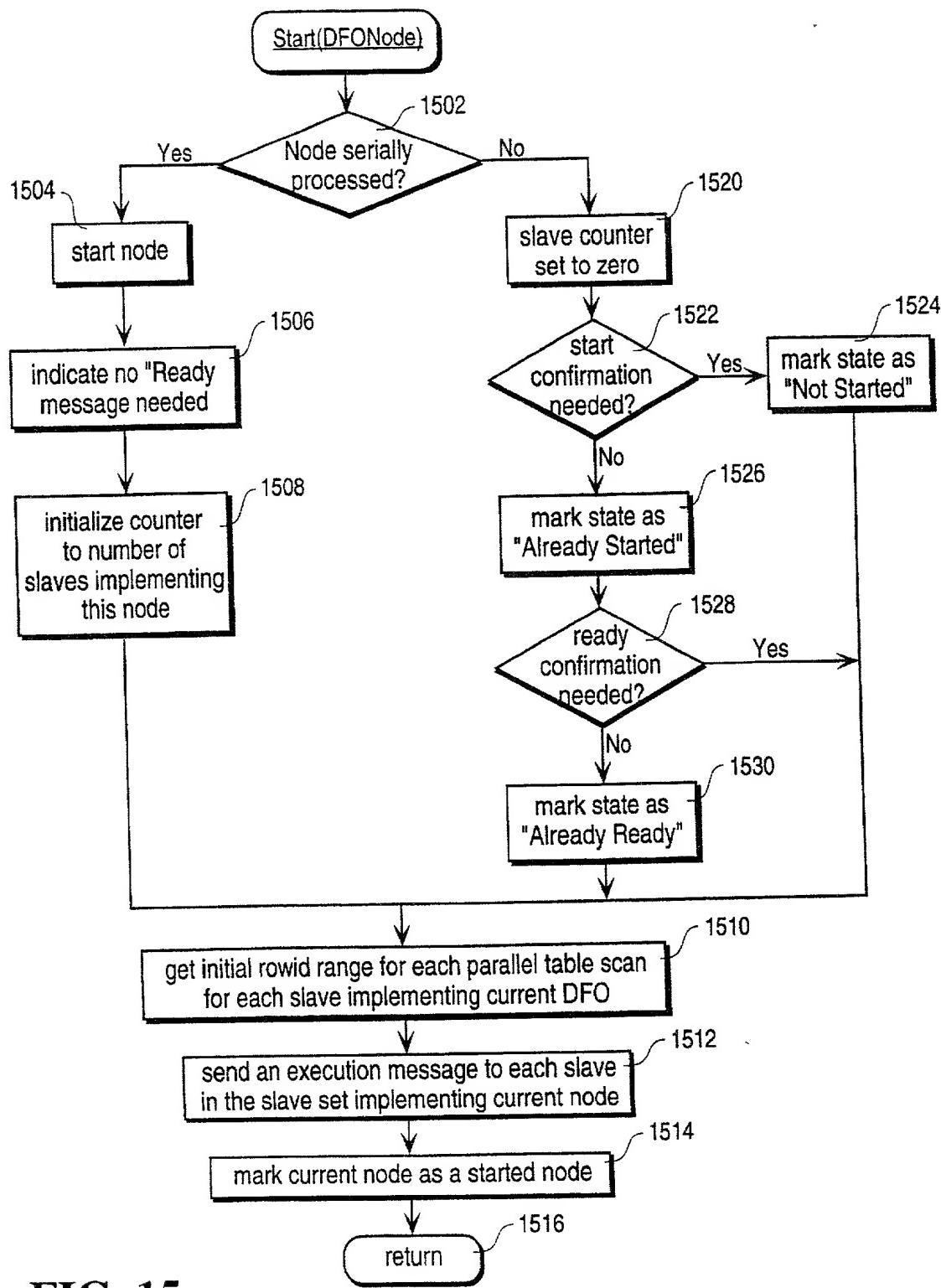


FIG. 15

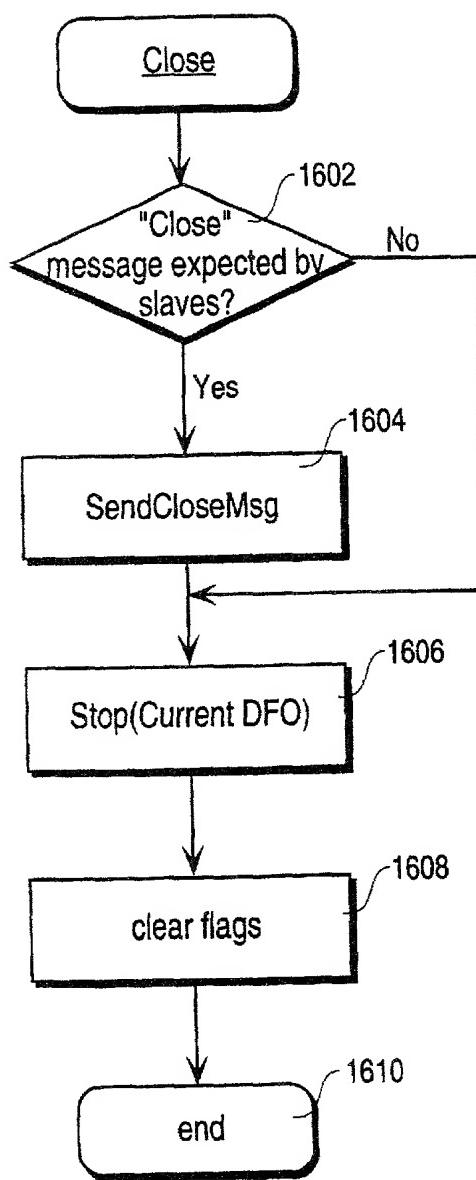


FIG. 16

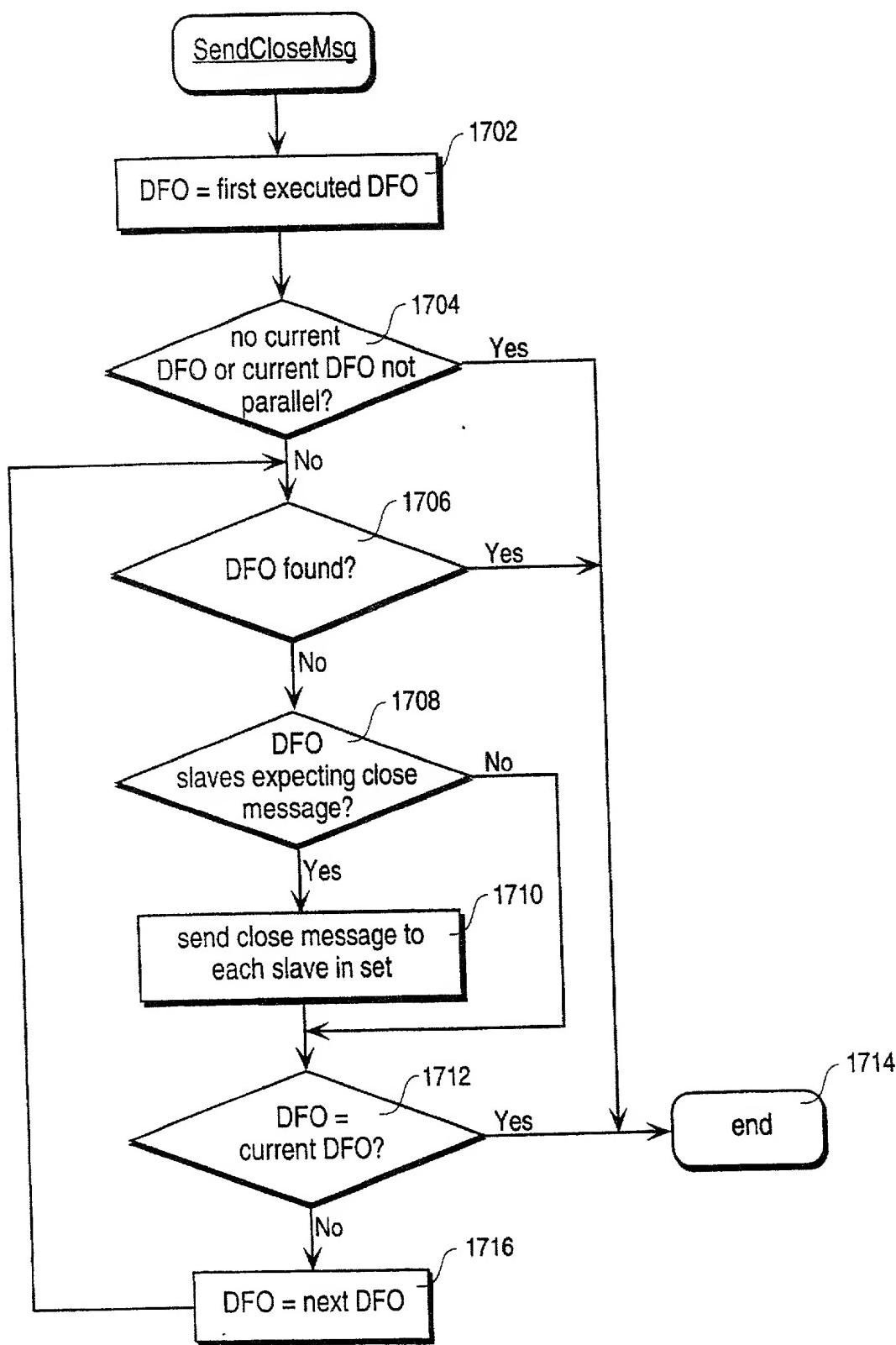


FIG. 17

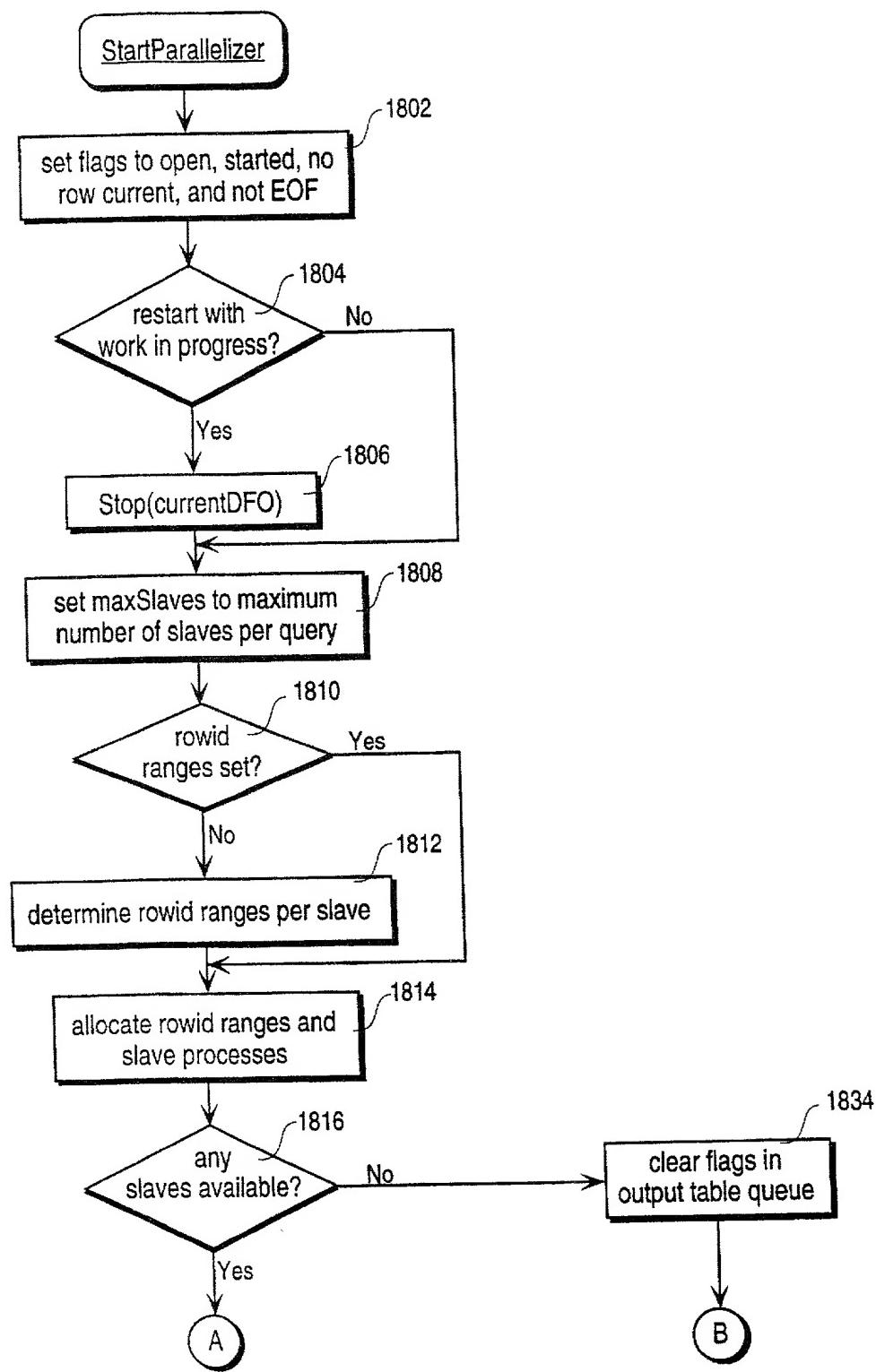


FIG. 18A

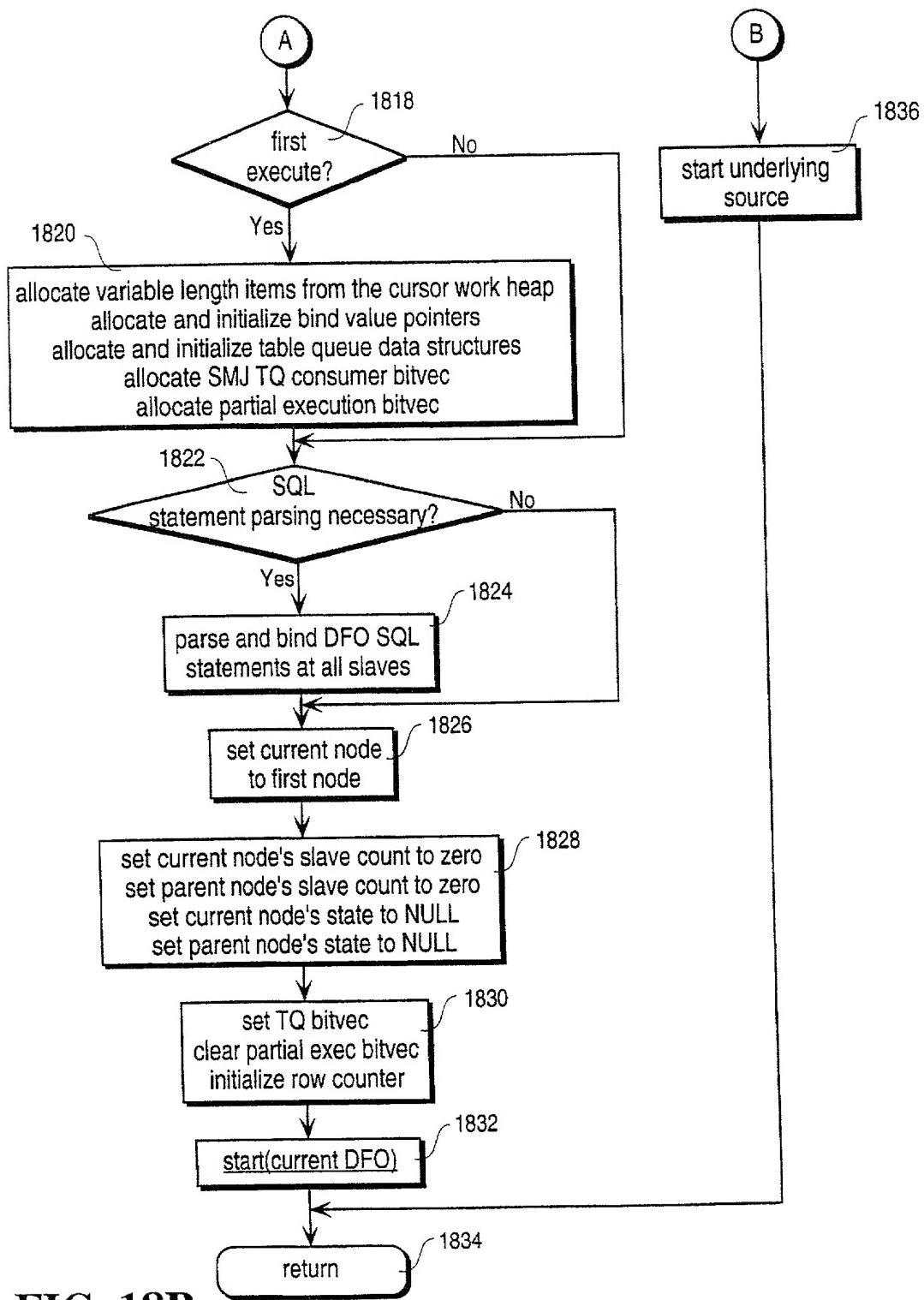
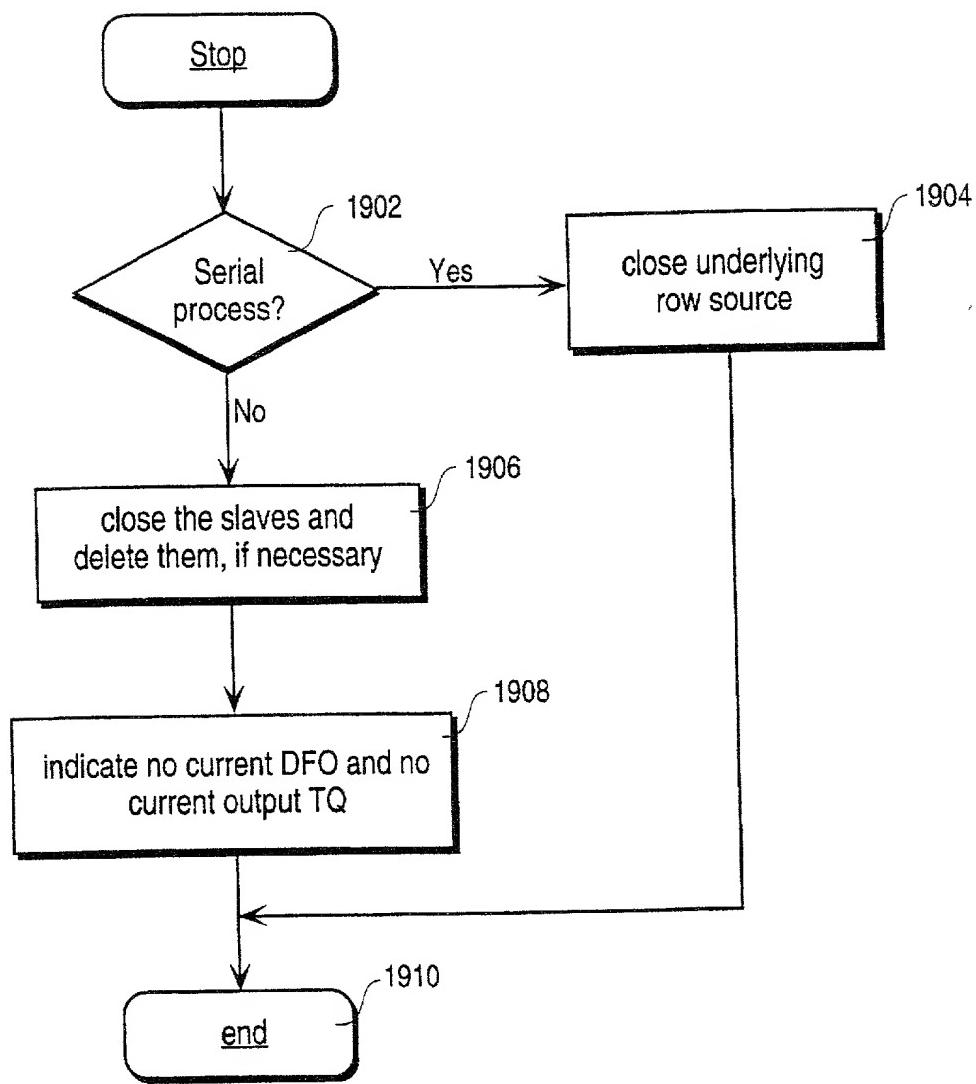


FIG. 18B

**FIG. 19**